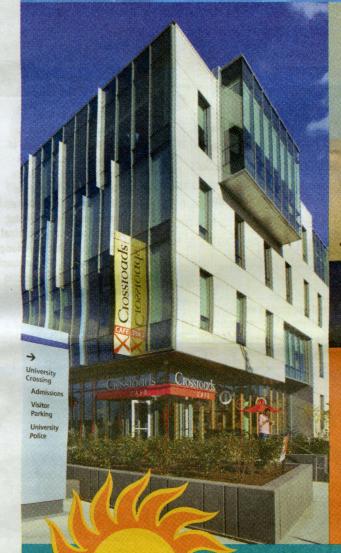


The Division of Online and Continuing Education http://continuinged.uml.edu

summer

Make an investment that will *last a lifetime*.





On Campus Or Online



Summer classes begin May 16, 2016... sign up today!

Undergraduate & Graduate Courses

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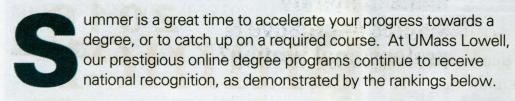
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The University uses multiple mailing lists. If you receive a duplicate copy, please share it with a friend.

University of Massachusetts Lowell
The Division of Online and Continuing Education
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(978) 934-2480

Make an Investment that Will Last a Lifetime:

Pursue Your Degree Online or On-Campus at UMass Lowell



We offer affordable, highly interactive courses on campus or online, specifically designed for degrees or certificates, and specially scheduled with convenient times and locations.

If you are a working professional or a traditional day student, you will find our courses stimulating and interesting. For instance, UMass Lowell has once again significantly expanded our summer offerings for 2016, including Sociology of Mass Media, Applied Research Design, Latin American Philosophy, Children's Literature, Engineering for Teachers, Domestic Terrorism and Extremism, Exercise Physiology 1, and Selected Authors: William Faulkner and many more.

This Summer, we invite you to invest in your education. Pursue your degree or certificate, online or on campus, from one of the largest continuing education providers in the Northeast.

As Spring is fast approaching, we hope you will take the time to enjoy our Summer bulletin, because it is filled with hundreds of new opportunities!

Highlights of UMass Lowell's recent U.S. News & World Report national rankings:









It was really important to

me to find a university with a reputable online program.

UMass Lowell really stood

courses they offer."

Aidah Wanjiku, Student

Administration

Bachelor's Degree in Business

out - not only for its quality and

price - but also for the depth of

Earn a **Master's Degree**

in Information Technology Online!

■ his 10-course contemporary degree is technically focused and features cutting-edge knowledge content critical to the workforce needs of the Commonwealth.

Offered fully online, this degree provides a pathway for students who have completed a Bachelor's in Information Technology and for working professionals who want to pursue advanced graduate studies in Information Technology.

The following graduate IT courses will be available this semester:

MSIT.5110-031 Network and System Administration

MSIT.5190-031 Virtual Systems

MSIT.5310-031 Project Management MSIT.5320-031 Managing Large Data Sets

MSIT.5450-031 Designing and Building a Cybersecurity Program

MSIT.5620-031 Digital Forensics

For further information, please visit http://continuinged.uml.edu/degrees/msit.cfm



Ranked a Best Buy Online Master's Degree by **GetEducated.com**



"I had looked into a number of graduate programs, but UMass Lowell had the best selection of graduate-level IT courses and the tuition was more affordable. I started out taking a few of the courses like Digital Forensics and **Cloud Computing, and found that** what I learned was very practical. I was able to apply that knowledge right away in my job. After a couple of semesters, I decided to pursue my Master's Degree."

Mark Willard M.S. in Information Technology, '14

EARN YOUR BACHELOR'S DEGREE IN BUSINESS ENTIRELY ONLINE!

UMass Lowell's Robert J. Manning School of **Business' Bachelor of Science Degree in Business Administration** is now available entirely online through the Division of Online and Continuing Education.

Summer 2016 Online Marketing Courses that can be counted towards the Bachelor's Degree in Business include:

MKTG.2010 Marketing Principles

MKTG.2100 Professional Communications

MKTG.3030 Sales and Customer Relations

MKTG.4020 Buyer Behavior

MKTG.4070 Retailing

MKTG.4120 Global Marketing

New Online Management Courses for the BSBA Degree this Spring include:

BUSI.3800 Business Ethics MGMT.4900 Strategic Management

UMass Lowell's Robert J. Manning School of Business is fully accredited by the Association to Advance Collegiate Schools of Business (AACSB) International.

For additional information, visit: http://continuinged.uml.edu/degrees/bsba.cfm

Personalized Student Services



New! Live Chat Advising

Do you have a quick question but don't feel like picking up the phone? Visit http://continuinged.uml.edu to chat live with one of our advisors, available Monday through Friday during regular office hours.

Schedule an Advising Appointment

To schedule an appointment with an academic advisor, use our online self-service scheduling system found at: http://continuinged.uml.edu/general/advising.cfm or call 978-934-2474 and a student support specialist will make an appointment for you.

Earn Credit for Prior Learning

Please contact your Faculty Program Coordinator or schedule an appointment to discuss how you can complete your degree in a timely manner. Qualified degree candidates can earn credit for prior learning or certifications through University approved course equivalency procedures. For example, Bachelor degree students who complete all their credits at the University may apply for up to a maximum of 30 course equivalency credits.

EARN A BACHELOR'S DEGREE IN PSYCHOLOGY

entirely online...

OR AS A MIX OF ONLINE AND ON CAMPUS COURSES

UMass Lowell's Bachelor of Arts in Psychology can be completed on a part-time basis. Students in this program are instilled with a better understanding of human behavior — a valuable asset for careers in areas such as social work, education, management and marketing.

For additional information, visit http://continuinged.uml.edu/online/psychology/



"My family and I came to the United States from Cambodia when I was still very young, and I am the first in my family to earn my bachelor's degree. Even though I live nearby, I earned my degree entirely online because it was so convenient, and I could work full time.

Bunloeu Huot, Bachelor of Arts in Psychology, '15

Earn a Bachelor's Degree in English Online!

Interested in the fields of literary studies or creative & professional writing?

The online Bachelor's Degree in English offers a flexible and vigorous curriculum grounded in British and American literary traditions, in the study of contemporary critical methods, and in the regular practice of research and writing.

New this Summer:

ENGL.2110-031 Poetry

ENGL.2980-061 Children's Literature

ENGL.4010-031 Selected Authors: William Faulkner

See page 10 for a complete list of English courses this semester!

For further information, visit

http://continuinged.uml.edu/degrees/english.cfm or email englishstudies@uml.edu



Complete your Degree On campus, online,

your previously completed coursework and suggest a program of study that will allow you to maximize the number of credits you can transfer into the program. The degree programs below are part-time and are designed to allow degree completers the greatest flexibility towards achieving their goals.

or both!

"I've been really impressed by the

caliber of UMass Lowell's Online

Bachelor's Degree in English. It's an innovative program, and that's

the primary reason I chose UMass

online degrees in English, UMass

Online English Degree Student

Lowell's program had just launched, and I liked that it was new

Lowell. When I was looking at

and inventive.

Charla McKenna

Earn a Bachelor's Degree in...

ON CAMPUS

Mathematics

Earn a Bachelor of Arts or a Bachelor of Science Degree in Mathematics. Math courses are available during the evenings on campus, making it easier than ever for busy adults to pursue or complete their degree part-

visit http://continuinged.uml.edu/ degrees/

Information **Technology**

Earn your degree from a leader in Information Technology programs:

- B.S. in Information Technology
- B.S. in Information Technology: **Business Minor Option**

See http://continuinged.uml.edu/ degrees/bs_informationtechnology.cfm for details

Liberal Arts

Choose two of the following concentration areas:

- Psychology Concentration
- Art History Concentration
- Gender Studies Concentration • Legal Studies Concentration
- History Concentration
- English Concentration
- Economics
- Political Science

Additional information on the Bachelor's Degree in Liberal Arts can also be found at http://continuinged.uml.edu/degrees/bladegree.cfm

Criminal Justice

Interested in a career in law enforcement, the courts system or corrections? UMass Lowell, a recognized leader in Criminal Justice Education is now offering its popular Bachelor's Degree in Criminal Justice entirely online!

For details, visit http://continuinged.uml.edu/degrees/bscrimjustice.cfm

PART TIME, ON CAMPUS

Engineering Technology

UMass Lowell offers Associate's and Bachelor's degrees in Mechanical Engineering Technology and Electronic Engineering Technology

See http://continuinged.uml.edu/engtech

PART-TIME UNDERGRADUATE **DEGREE PROGRAMS**

COLLEGE OF ENGINEERING

Associate's Degrees

Electronic Engineering Technology Mechanical Engineering Technology

Bachelor's Degrees

Electronic Engineering Technology Mechanical Engineering Technology

COLLEGE OF FINE ARTS, HUMANITIES & SOCIAL SCIENCES

Bachelor's Degrees Criminal Justice Criminal Justice: Paralegal Option Liberal Arts English Psychology

COLLEGE OF SCIENCES

Associate's Degree Information Technology

Bachelor's Degrees Applied Mathematics Information Technology

Information Technology: **Business Minor Option** Mathematics

Mathematics: Statistics Concentration Mathematics: Teacher

MANNING SCHOOL OF BUSINESS

Concentration

Associate's Degree Management

Bachelor's Degree Business Administration

COLLEGE OF HEALTH SCIENCES

Bachelor's Degree Nursing - RN to BS Degree **Completion Option**

BLENDED PROGRAM

Nursing: RN to BS Degree Completion Option

Speak with an Advisor at our RN to BS Open House: Monday, May 9 from 5-7pm

Join us at our RN to BS Open House at UMass Lowell's Health & Social Sciences Building, 113 Wilder Street in Lowell. RSVP to Stephanie Lane at 978-934-4776 or email Stephanie_Lane@uml.edu



"I liked that I was able to take a mix of online and on campus courses. I cannot say enough good things about my experience at UMass Lowell."

Colleen Silva, BSN ('15) RN CCM Case Management Supervisor

"There's something about going to school that keeps you young, it keeps you motivated. The atmosphere at UMass Lowell has been great."

> Don Ludwig, RN to BS, 2016 Dialysis RN

For more information, visit http://continuinged.uml.edu/rntobs.cfm



SIGNATURE PORTFOLIO OF ONLINE DEGREES & CERTIFICATES

ONLINE DEGREE PROGRAMS!



Earn your degree from a nationallyrecognized leader in online education. At UMass Lowell, we are committed to providing high-quality, affordable online programs - all highly interactive and all backed by the academic integrity of a top-ranked research university.

Online Undergraduate Degree Programs

- Bachelor's Degree in Business Administration B.S.B.A. NEW
- Associate's Degree in Management, A.S.
- Bachelor's Degree in Criminal Justice, B.S. NEW
- Bachelor's Degree in English, B.A. NEW
- Bachelor's Degree in Information Technology, A.S. & B.S. Business Minor Concentration Available
- Bachelor of Liberal Arts Degree, B.L.A.
- Bachelor's Degree in Psychology, B.A.

Online Undergraduate Certificate Programs

- Certificate in Java Development NEW
- Certificate in Contemporary Communications
- Certificate in Data/Telecommunications
- Certificate in Graphic Design and Digital Imaging
- Certificate in Information Technology
- Certificate in Multimedia Applications
- Certificate in Paralegal Studies
- Certificate in Security Management and Homeland Security
- Certificate in Linux/UNIX
- Certificate in Website Design and Development

Online Master's Degree Programs

- Master's Degree in Accounting (Online MSA) NEW
- Master's Degree in Finance NEW
- Master's Degree in Security Studies: Critical Infrastructure Protection Concentration NEW!
- Master's Degree in Security Studies: International Security Concentration NEW!
- Master's Degree in Security Studies: Industrial and Economic Security Concentration NEW!
- Master's Degree in Security Studies: Cyber Security Concentration, M.S. NEW
- Master's Degree in Security Studies: Homeland Defense Concentration, M.A. NEW
- Master's Degree in Criminal Justice, M.A.
- Master's Degree in Business Administration (Online MBA)
- Master's Degree in Educational Administration, M.Ed.
- Master's Degree in Information Technology, M.S.
- Master's Degree in Reading and Language, M.Ed.
- Master's Degree in Curriculum & Instruction, M.Ed.
- Master's Degree in Curriculum & Instruction: Science Education Option, M.Ed.
- Master's Degree in Curriculum & Instruction: Autism Studies Option, M.Ed.

Online Education Specialist Degrees

- Curriculum & Instruction, Ed.S.
- Reading & Language, Ed.S*
- Administration, Planning & Policy, Ed.S*

Online Graduate Certificate Programs

- Certificate in Behavioral Intervention in Autism
- Certificate in Biomedical Engineering
- Certificate in Clinical Pathology
- Certificate in Domestic Violence Prevention
- Certificate in Foundations of Business
- Certificate in Forensic Criminology
- Certificate in Health Informatics
- Certificate in Network Security
- Certificate in New Venture Creation
- Certificate in Plastics Engineering
- Certificate in Security Studies
- Certificate in System Models and Management
- Certificate in Victim Studies

Call (978) 934-2474 or visit http://continuinged.uml.edu/online to test drive an online course today!

Requirements and Registration Procedures for Online Courses

Online Education Course Registration Students should make sure they have fulfilled the particular course prerequisites prior to registering for a course. See the registration information on page 22 and the Non-Degree Registration Form at http://continuinged.uml.edu/echosign. The registration form also contains a user-friendly checklist to help you through the registration and course login process. Note: Please be sure to provide your email address when you register!

"Get your username & password here" link. Online course usernames and passwords become available two business days after registering for an online course. The "Get your username & password here" link is usually made available to students approximately three weeks prior to the start of the semester. All Online Students are encouraged to review the Online Education website at http://continuinged.uml.edu/online/courses/ to view course software and textbook requirements, course descriptions,

Blackboard Usernames and Passwords All online students must obtain their Blackboard online course usernames and passwords by visiting http://continuinged.uml.edu/online and clicking on the

chat hours and other course specific information. Online courses require weekly participation and assignments. Online students can expect to spend 6-10 hours per course each week engaged in course-related activities. A microphone and speaker, or a headset is recommended. Technical Skills and Requirements To take an online course, you'll need access to either a PC w/Windows 7 or later or a Mac w/OS 10.7 or later, the latest version of Java, and a high speed Internet connection (DSL, Cable or FiOS). Visit http://continuinged.uml.edu/online/techrequire.cfm for additional information. Some online courses may require additional software. Please check the course

details on our website for additional requirements. Students are responsible for learning to use course-related software before enrolling in an online course Test Drive and Tutorials All students new to Online Education should complete the free "Test Drive a Course" demo available at http://continuinged.uml.edu/online/tutorial/testdrive.htm. Tutorials are available on the Online Education Website at: http://continuinged.uml.edu/online/tutorial

For the latest information regarding our online courses and programs, visit our website at http://continuinged.uml.edu/online or call (978) 934-2474.

Note: The University of Massachusetts System offers additional courses and programs online. Visit www.UMassOnline.net for more details Please note: There are no veteran or senior citizens waivers for online courses. Please refer to pages 22-23

EARN YOUR MBA ONLINE!

UMass Lowell's Manning School of Business is now offering their popular on campus MBA program online so that students both near and far can benefit from the program's commitment to excellence.

Master of Business Administration — Earn Your MBA Online, On Campus or Both! http://continuinged.uml.edu/online/mba/

Concentrations in:

- Accounting
- Finance
- Information Technology
- Marketing

(978) 934-2848.

- International Business

Visit http://continuinged.uml.edu/online/MBA/ for details.

For more information, contact the MBA Office at the Manning School of Business,



UMass Lowell's Online MBA has been ranked among the Best by US News & World Report, the Princeton Review and GetEducated.com





2016

Online Marketing Concentration for the MBA Program

Be part of this fast-paced profession and earn your degree with a focus on marketing!



Marketing is more important than ever. As the world gets flatter and the competitive landscape increases, marketing's job is to differentiate the company product, service or idea. Marketing professionals serve an essential function of any business or organization of getting the word out about a product or service. Any organization can benefit from positive marketing, including nonprofits, government agencies or entrepreneurs.

This Spring UMass Lowell will begin offering new courses as part of our Marketing Concentration for the MBA program. Courses include:

- Digital Marketing
- Customer and Markets Offered Summer 2016!
- New Product Development
- Market Research

Visit http://continuinged.uml.edu/online/MBA/ for details.

SIGNATURE PORTFOLIO OF ONLINE DEGREES & CERTIFICATES

ONLINE GRADUATE PROGRAMS FOR TEACHERS

10 Courses for your M.Ed. or Ed.S.

Earn Your M.Ed. or Ed.S. entirely online from one of New England's best graduate-level education programs.

The following graduate degree programs are available:

- Educational Administration, M.Ed., Ed.S.*
- Curriculum and Instruction, M.Ed., Ed.S.
- Reading and Language, M.Ed., Ed.S.*

*Licensure options are available for Massachusetts teachers.

NEW! Earn Your Doctorate in Education Online Plus

- a One Week Summer Residency
- Leadership in Schooling, Ed.D.
- Leadership in Schooling, STEM Option, Ed.D.

For more details, visit http://continuinged.uml.edu/education

Affordable Tuition! Only \$470 per credit; \$1,410 for a 3-credit course!

UMass Lowell's Graduate Education Program was recently ranked 9th nationally by

US News & World Report as one of the Best Online **Education programs!**



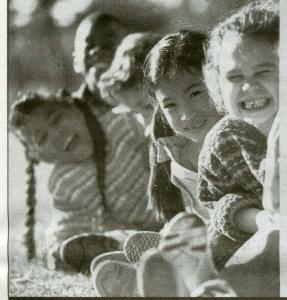
Call the Graduate School of Education for a FREE BROCHURE

Call 978-934-4600 or email edoffice@uml.edu





Accredited by the National Council for Accreditation of Teacher Education.



Behavioral Intervention in Autism

Online Graduate Certificate for BCBA Preparation http://continuinged.uml.edu/online/autism.cfm

Early behavioral intervention is key in the successful treatment of autism. UMass Lowell's Department of Psychology offers an award-winning online Graduate Certificate Program in Behavioral Intervention in Autism. This six-course online graduate program is designed for those interested in becoming a Board Certified Behavior Analyst® (BCBA) through the Behavior Analysis Certification Board® (BACB) and will fulfill the Board's specific coursework requirements. Courses are taught by expert behavior analysts from around the country who work for some of the most respected centers for autism treatment and research.

Required Courses (6):

PSYC.5610 Introduction to Behavioral Intervention in Autism - Available this Summer!

PSYC.5620 Teaching and Positive Behavioral Support in Autism - Available this Summer! PSYC.5650 Measurement & Experimental Design in Behavioral Intervention - Available this Summer!

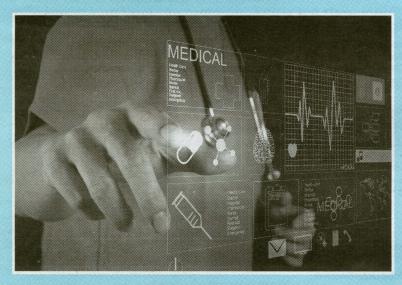
PSYC.5660 Functional Analysis and Treatment of Challenging Behavior - Available this Summer!

PSYC.5680 Behavioral Intervention Program Models in Autism - Available this Summer! Legal and Ethical Issues in Professional Practice - Available this Summer! PSYC.5720

NEW THIS SUMMER!! PSYC.5630 Management Strategies in Applied Behavioral Interventions

This online course, along with PSYC.5610, PSYC.5620, and PSYC.5660 shown above, will satisfy the educational requirements for those with Bachelor's degrees who are interested in becoming a BACB Board Certified Assistant Behavior Analyst (BCaBA).

Earn a Graduate Certicate in Health Informatics Entirely Online!



A 4-course graduate certificate program for individuals who wish to apply current computer technology to the management of healthcare services in clinical, financial and record keeping areas. These courses can be applied towards UMass Lowell's Blended M.S. in Health Informatics & Management.

PUBH.5310 Health Informatics - Available Online this Summer! PUBH.6070 Healthcare Information Systems - Available Online this Summer!

PUBH.6320 Health Information Systems Planning

PUBH.6330 Healthcare Database Design - Available Online this Summer

PUBH.6350 Healthcare Project Management - Available Unline this Summer

PUBH.6380 Strategic Planning in Healthcare and Healthcare Information Technology

PUBH.6390 Electronic Health Records Systems - Available Online this Summer

For more information contact Kimberly Flodin at 978-934-6628 or Kimberly_Flodin@uml.edu

Earn Your Associate's Degree in Information Technology from a Top-Ranked IT Program

UMass Lowell's Associate's Degree in Information Technology is designed for those who are interested in pursuing a career in the high demand field of Information Technology. In addition to concentrated electives and general studies requirements, the IT Associate's degree program includes popular courses such as:

- Introduction to Information Systems
- Technical and Scientific Communication
- Programming (various languages) · Graphics for Multimedia and the Web
- Desktop Video Production
- Website Development
- Web Database Development

Graduates of the A.S. in Information Technology can count all of their associate's degree courses towards UMass Lowell's B.S. in Information Technology once they're ready to take their education to the next level.

UMass Lowell's A.S. in Information Technology was recently ranked nationally as #2 Best Online IT Associate's Degree by TheBestSchools.org



For additional information on UMass Lowell's Online Associate's Degree in Information Technology, visit http://continuinged.uml.edu/degrees/as_informationtechnology.cfm

UNDERGRADUATE CERTIFICATE PROGRAMS 6-10 Courses to a New Career

Courses from a completed certificate may be counted towards a degree. Call or email us for details. UMass Lowell also offers several Online Graduate Certificate Programs. See page 4.

Creative Arts/Media

Graphic Design & Digital Imaging

Available entirely online

Use Towards a Degree in Information Technology or Liberal Arts!

Required Courses: (6)

GRFX.2000 Introduction to Graphic Design Fundamentals of Typography GRFX.2020 GRFX.2030 Photographic Imaging Desktop Publishing: Print Production GRFX.2110 Advanced Graphic Design GRFX.3000 Portfolio Production Seminar GRFX.4000

Electives: (Choose 3):

Computer Graphics & Illustration GRFX.2040 GRFX.2120 Website Design: Dreamweaver GRFX.3120 Advanced Website Design GRFX.3150 Design for Advertising INFO.2300 Introduction to Multimedia INFO.2310

Graphics for Multimedia and the Web INFO.2380 Website Development: Adobe® Dreamweaver

^{*}Please call an advisor for substitutions for required courses.

















Multimedia Applications

Available on campus and online

Use Towards a Degree in Information Technology!

Required Courses: (4)

INFO.2300 · Introduction to Multimedia INFO.2310 Graphics for Multimedia and the Web INFO.2320 •• Desktop Video Production Web Authoring: Adobe® Flash®* INFO.2470

Electives: (Choose 2):

Introduction to Graphic Design GRFX.2000 GRFX.2030 Photographic Imaging GRFX.2040 Computer Graphics & Illustration GRFX.2120 Website Design: Dreamweaver Advanced Website Design GRFX.3120 INFO.2380 Website Development: Dreamweaver INFO.2500 ··· E-Commerce on the Web INFO.2910 ** Introduction to HTML INFO.3060 · Introduction to XML INFO.3460 · Digital Media Delivery

Interested in Electronics?

Check out UMass Lowell's Introductory Certificate Program in Electronic Engineering Technology!

Criminal Justice & Legal Studies

Employment of paralegals and legal assistants is projected to grow 17% from 2012 to 2022, faster than the average for all occupations.1

Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2014-15 Edition, Paralegals and Legal Assistants, on the Internet at http://www.bls.gov/ooh/legal/paralegals-and-legal-assistants.htm (visited



Paralegal Studies

Available on campus and online

Use Towards a Degree in Criminal Justice!

Required Courses: (4)

Introduction to Paralegal Studies LGST.1030 LGST.3700 Real Estate Law LGST.3870 Legal Research Methods LGST.3900 Litigation

Electives: (Choose 2):

Corporate and Property Law LGST.3630 LGST.3660 International Law LGST.3670 **Environmental Law** LGST.3760 Family Law LGST.3810 Women and the Law LGST.3830 Alternative Dispute Resolution LGST.3860 Intellectual Property LGST.3920 Wills, Trusts, and Estates LGST.4970 The Paralegal Practicum* *For Massachusetts students only

Security Management and **Homeland Security**

Available on campus and online

Use Towards a Degree in Criminal Justice!

Required Courses: (4)

CRIM.1150 Introduction to Homeland Security CRIM.2130 **Emergency Management** CRIM.3120 Security Management INFO.3850 · Introduction to Information Security

Electives: (Choose 2):

Intelligence and National Security CRIM.3490 CRIM.2340 Criminal Law CRIM.2480 **Terrorism** CRIM.3260 Hate Crime CRIM.3420 Criminal Profiling CRIM.3430 Forensic Psychology CRIM.3480 Advanced Seminar on Weapons of Mass Destruction and Terrorism CRIM.3800 Selected Topics in Criminal Justice

UMass Lowell is no longer accepting applications into the **Database Management Technologies Certificate Program.**

Website Design & Development

Use Towards a Degree in Information Technology!

Website Design Track

Available online

Note: Students pursuing the Website Design Track should have basic familiarity with HTML. Those who do not have basic familiarity with HTML are encouraged to take INFO.2910 Introduction to HTML as one of their electives prior to taking the required courses in this program.

Required Courses: (4)

INFO.2310 - Graphics for Multimedia & the Web GRFX.2120 Website Design: Dreamweaver GRFX.3120 Advanced Website Design INFO.2470 Web Authoring: Adobe® Flash®

Electives: (Choose 2):

GRFX.2030 Photographic Imaging INFO.2300 · Introduction to Multimedia INFO.2380 Website Development: Dreamweaver INFO.2480 · Website Database Implementation INFO.2500 ** E-Commerce on the Web INFO.2910 · Introduction to HTML INFO.2920 ··· Advanced DHTML INFO.3020 - JavaScript INFO.3060 · Introduction to XML

*Please call an advisor for substitutions for required courses

INFO.3460 · Digital Media Delivery

Note: Other INFO xxxx courses may be substituted as electives for the Website Development Track with prior approval from the certificate program coordinator.

Free Microsoft software is available for UML students enrolled in INFO.xxxx or MSIT.xxxx courses Visit continuinged.uml.edu/msdnaa.htm for details.

Website Development Track

Available online

Required Courses: (4) INFO.2910 · Introduction to HTML

Website Development: w/Adobe Dreamweaver® INFO.2380 INFO.2480 · Website Database Implementation INFO.3060 · Introduction to XML

Electives: (Choose 2): GRFX.2120

Website Design GRFX.3120 Advanced Website Design INFO.2270 · Developing Interactive Help Systems INFO.2310 . Graphics for Multimedia & the Web INFO.2450 · Website Server Administration INFO.2460 · Active Server Pages .NET INFO.2470 Web Authoring: Adobe® Flash® INFO.2500 ··· E-Commerce on the Web INFO.2920 - Advanced DHTML Intro to Java Programming INFO.2970 INFO.3010 · Java Programming INFO.3020 · JavaScript INFO.3050 - Survey of Perl/Python/PHP INFO.3460 · Digital Media Delivery

Information Technology

Information Technology

Available on campus and online

Use Towards a Degree in Information Technology!

Required Courses: (2)

INFO.1600 ** Introduction to Information Systems* INFO.2020 ** Microsoft® Office*

Electives: (Choose 4):**

Programming Electives:

INFO.2110 · Introduction to Programming with C, Part I INFO.2120 ** Introduction to Programming with C, Part II INFO.2200 ** Visual Basic®

INFO.2670 *** C Programming INFO.2680 ** C++ Programming INFO.2690 · Advanced C++ INFO.2700 · Visual C++ .NET INFO.3640 ** Problem Solving with C

INFO.1710 ** Applications Software: Microsoft® Access INFO.3420 ** Web-Enabled Database Development INFO.4740 ** Relational Database Concepts

Multimedia/Web Electives:

INFO.2300 · Introduction to Multimedia Exploring the Internet COMP.1130

Additional Electives:

INFO.3110 · Intro to the Linux/UNIX® Operating System INFO.3120 ** Shell Scripting

INFO.4610 · LAN/WAN Technologies

*Students with appropriate experience can replace the required courses with any of the electives courses.

Note: This is a partial list. For the complete list of courses that may be applied as electives, see the Online & Continuing Education website for computer courses with the INFO. prefix, or contact the Faculty and Student Support Center at 978-934-2474.

Linux®/UNIX®

Available on campus and online

Use Towards a Degree in Information Technology!

Required Courses: (4)

INFO.2670 · C Programming

INFO.3110 ** Intro to the Linux/UNIX® Operating System INFO.3120 ** Shell Scripting

INFO.3600 · Introduction to Data Structures

Electives: (Choose 2):

INFO.2680 ** C++ Programming INFO.2690 · Advanced C++ INFO.3130 - Linux/UNIX Internals Overview

INFO.3160 · UNIX System Administration INFO.3180 Advanced Linux/UNIX Internals/Tuning INFO.3190 ** Introduction to Linux

INFO.3210 ** Linux/UNIX System Administration

Data/Telecommunications Available on campus and online

Use Towards a Degree in Information Technology!

Required Courses: (5) INFO.2670

C Programming LAN/WAN Technologies INFO.4610 INFO.4620 TCP/IP and Network Architecture INFO.4570 **Network Security** Network Management

NEW! The Java Development Certificate Program

Available online

Use Towards a Degree in Information Technology!

The US Bureau of Labor Statistics, Occupational Outlook Handbook, 2010-2011 edition reports that the demand for Information Technology workers is expected to continue its growth trajectory through 2018. UMass Lowell's new Java Development Certificate Program is designed to provide IT professionals with a cluster of Java courses that will make them more competitive in today's marketplace.

Required Courses (4):

INFO.2970 Intro to Java Programming INFO.3010 Java Programming INFO.3030 Advanced Java Programming Agile Software Development* INFO.3080

*Please call an advisor for substitutions for required courses.

Electives - Choose 2:

Survey of Programming Languages INFO.2250 INFO.2670 C Programming INFO.3040 Introduction to Java Web Development

Survey of Perl/Python/PHP INFO.3050 INFO.3070 Advanced Topics in Java & XML

All of the courses for this certificate can also be counted towards UMass Lowell's Bachelor's Degree in Information Technology. For more information, visit http://continuinged. uml.edu/certificates/java.cfm

CUSTOMIZED TRAINING

Designed to meet your company's business needs

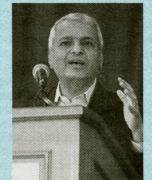
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ATTENTION HIGHER EDUCATION INNOVATORS

Join Us at the Fifth Annual

Deshpande Symposium

FOR INNOVATION AND ENTREPRENEURSHIP IN HIGHER EDUCATION



June 13-15, 2016

Join peers from across North America as we examine best practices in launching innovative programs and entrepreneurial campuses. Share your program successes, and build collaborations that strengthen your campus and community.

Topics will include:

- Developing Entrepreneurial Universities: Culture & Ecosystems
- Entrepreneurship in the Curriculum
- University Research Commercialization and Start-ups

Held at UMass Lowell's Inn & Conference Center

Visit http://www.deshpandesymposium.org for details!



The Power and Potential of Women

The University of Massachusetts Lowell is pleased to be hosting a one-day conference of women leaders on Tuesday, June 21, 2016 to discuss challenges and paths forward to empower women in today's workplace.

For more information, visit http://continuinged.uml.edu/wlc



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PROJECT 2016 MANAGEMENT

NONCREDIT • CERTIFICATE

Seminars may be taken individually or applied towards the Project Management Certificate.

For a Project Management Brochure or for additional information, call (978) 934-2473.

To register call: (978) 934-2405!

For additional information, visit:

http://continuinged.uml.edu/corporate/ projectmanagementcertificate.cfm "These are the best Project Management courses I've taken. The instructors make it easy for me to apply the classroom skills at my office the very next day."

Cheryl Steiner, Project Manager

UMass Lowell is a PMI® Registered Global Education Provider

REQUIRED SEMINARS:

Project Management: Planning & Scheduling

CRS #00.608-043
Two Days; Meets 9am-4pm;
Thursday/Friday, May 5, 6
Held on Lowell Campus; Tuition: \$825;
Contact Hours/ PDUs: 14

Project Management: Resources and Budgeting

CRS #00.609-043 Two Days; Meets 9am-4pm; Thursday/Friday, June 2, 3 Held on Lowell Campus; Tuition: \$825; Contact Hours/PDUs: 14

Risk Management

CRS #00.614-043 Two Days; Meets 9am-4pm; Thursday/Friday, June 23, 24 Held on Lowell Campus; Tuition: \$825; Contact Hours/PDUs: 14

ELECTIVES SEMINARS (CHOOSE 3):

Organizational Skills

CRS # 00.617-041
One Day; Meets 9am-4pm
Friday, June 17
Held on Lowell Campus; Tuition: \$495;
Contact Hours/PDUs: 7

Negotiation Skills

CRS #00.618-041
Two Days; Meets 9am-4pm
Monday/Tuesday; May 23, 24
Held on Lowell Campus; Tuition: \$825;
Contact Hours/PDUs: 14

Conflict Resolution for Project Managers

CRS #00.624-041 Two Evenings; Meets 6pm-9:30pm Mondays; May 2, 9 Held on Lowell Campus; Tuition: \$495 Contact Hours/PDUs: 7

Procurement & Contract Management

CRS #00.625-041
Four Evenings; Meets 6pm-9:30pm
Tuesdays; May 10, 17, 24, 31
Held on Lowell Campus; Tuition: \$825
Contact Hours/PDUs: 14

Communication & Team Management

CRS #00.626-041 Two Days; Meets 9am-4pm Thursday/Friday; April 7, 8 Held on Lowell Campus; Tuition: \$825; Contact Hours/PDUs: 14

OPTIONAL SEMINAR:

PMP Exam Preparation

CRS #00.621-042 Four Evenings; Meets 6pm-9:30pm; Wednesdays, June 1, 15, 22, 29 Held on Lowell Campus; Tuition: \$825; Contact Hours/PDUs: 14

Project Management Noncredit Advanced Certificate Program

UMass Lowell's Advanced Project Management Certificate Program offers working professionals intensive training in advanced project management topics. This program emphasizes important and relevant information useful in today's fast-paced environment. Focused on critical topics in project management, the advanced certificate consists of five seminars and is appropriate for project managers who want to increase their knowledge as well as PMPs who need to maintain their credentials.

Summer 2016 Schedule

To register call 978-934-2405 Choose 4 of the following 5 seminars to complete the certificate:

SEMINARS:

Stakeholder Management

One Day; Meets 9am-4pm; Friday, April 15 Held on Lowell Campus, Tuition: \$525 Contact Hours/PDUs: 7

Project Management in the Public Sector

CRS #00.652-041 Two Days; Meets 9am-4pm; Monday/Tuesday, June 27, 28 Held on Lowell Campus; Tuition: \$850 Contact Hours/PDUs: 14

Critical Thinking for Project Managers

CRS #00.653-041 One Day; Meets 9am-4pm; Friday, June 10 Held on Lowell Campus, Tuition: \$525 Contact Hours/PDUs: 7

Total Project Control Team Case Study

Prerequisite: PMP, Planning & Scheduling, Resources & Budgeting or equivalent CRS #00.654-041 One Day; Meets 9am-4pm; Friday, May 20 Held on Lowell Campus, Tuition: \$525 Contact Hours/PDUs: 7

Agile & Scrum Training

CRS #00.638-042 One Day; Meets 9am-4pm; Monday, June 20 Held on Lowell Campus, Tuition: \$525 Contact Hours/PDUs: 7

CORPORATE PARTNERSHIPS

Courses Can be Delivered Onsite at Companies



"Analog's partnership with UMass
Lowell has been fantastic. It's been
so convenient to take courses where
I work. I'm going to graduate with
my Bachelor's Degree in Electronic
Engineering Technology in 2016. I can't
say enough about the program. It's been
a wonderful opportunity to earn my
degree from UMass Lowell at Analog."

Tony Herrera, Associate Equipment Engineer Analog Devices, Inc.

PLASTICS SEMINARS Plastics Pl

Attend our plastics seminars on campus
— or on site at your

company!

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To register, call (978) 934-2405

Summer Session I

Title

SIS Course

No. No.

Classes Begin May 16, 2016

Days Time

Cr

P: Prerequisite

(Con) C: Corequisite/Comments

Full Term Online Classes (-031): May 16–August 6, 2016 Accelerated Online Classes (-061) May 16–July 23, 2016 Summer I On Campus (-011): May 16–June 27, 2016

M/W Classes begin on Monday, May 16 and include 3 FRIDAYS: May 20, June 3 and June 27 at the regularly scheduled hours.

T/Th Classes begin on Tuesday, May 17 and include 2 FRIDAYS: May 27 and June 10 at the regularly scheduled hours.

Please check course numbers and prerequisites to ensure enrollment in the correct class.

Instructor

ccc	DUNTING					
		Accounting/Financial	T/Th 6:00-8:50 pm	2		S. DeSimone
		Accounting/Financial	Online Course	3		C. Carter
		Accounting/Managerial	M/W 6:00-8:50 pm	3		L. Christianson
		Accounting/Managerial	>Online Course	3		S. Suh
		Fundamentals of Accounting	Online Course	3		C. Rohland
					D. ACCT 2020: PSRA students	S. Tate
		Intermediate Accounting I Intermediate Accounting II	M/W 6:00-8:50 pm M/W 6:00-8:50 pm	3	P: ACCT.2020; BSBA students P: ACCT.3010	S. Suh
						S. Strickland
		Accounting Information Systems	T/Th 6:00-8:50 pm	3		
		Cost Accounting	Online Course	3		H. Sharma
		Advanced Financial Accounting	Online Course	3	P: ACCT.3020	J. Lin
		Auditing	Online Course	3		H. Sharma
14	ACCT.4310-061	Federal Income Taxes	>Online Course	3	P: ACCT.2020	J. Casello Bouges
RT/	COMPUTER GRAPHIC	CS	(See also Studio Art and	Art H	istory)	
		Introduction to Graphic Design	>Online Course	3	P: Basic computer proficiency; requires	P. Orfao
		Fundamentals of Typography	Online Course	3	Adobe InDesign, Photoshop & Illustrator CC* P: Basic computer proficiency; requires	C. Meeks
					Adobe® Illustrator® & Photoshop® CC*	
	GRFX.2030-061	Photographic Imaging: Photoshop	Online Course	3	P: Basic computer proficiency; requires Adobe Photoshop CC*	E. Carlson
		Computer Graphics and Illustration	Online Course	3	P: Basic computer proficiency; requires Adobe® Illustrator CC*	C. Meeks
21	GRFX.2110-061	Desktop Publishing: Print Production	Online Course	3	P: GRFX.2000 or ARTS.2910 or ARTS.2100; GRFX.2020 as prereq or coreq or instructor permission; requires	R. Gardner-Milan
	added bon each	of 21/ 2016 to discuss drallor	ul asbenul l		Adobe InDesign®, Photoshop & Illustrator CC*, plus access to a scanner	
22	GRFX.2120-061	Website Design: Dreamweaver	Online Course	3	P: HTML and Photoshop familiarity required; requires Dreamweaver® and Photoshop CC*	C. Perry
23	GRFX.3000-061	Advanced Graphic Design	Online Course	3	P: GRFX.2000 and GRFX.2020 or instructor permission; requires Adobe InDesign, Photoshop & Illustrator CC*	P. Orfao
24	GRFX.3120-061	Advanced Website Design	Online Course	3	P: GRFX.2120 or ARTS.3790 or ARTS.3200; requires Dreamweaver and Photoshop CC*	C. Perry
5	GRFX.3150-061	Design for Advertising	Online Course	3	P: GRFX.2000 and GRFX.2020, familiarity	R. Gardner-Milan
					with Adobe Photoshop and InDesign recommended requires Dreamweaver and Photoshop CC*	
26	GRFX.4000-061	Portfolio Production Seminar	Online Course	3	P: GRFX.2000 or GRFX.2020 and GRFX.2110 and GRFX.3000 or instructor permission; requires	E. Wetmore
76		Art Appreciation	T/Th 6:30-9:20 pm	3		K. Redman
	ARHI.1010-061 ARHI.1050-061	Art Appreciation Comparative Arts	>Online Course >Online Course	3		J. Sawyer J. Sawyer
00	AHTI. 1030-001	Comparative Arts	/Offine Course	3		J. Savvyei
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SIS No.	No.	Title	Days Time (P: Prerequisite C: Corequisite/Comments	Instructor
2742		Statics	M/W/Th 10:30 am-12:50 pm		P: PHYS.1410; C: MATH.1320	E. Hajduk
2684		Strength of Materials			P:ENGN.2050 and MATH.1320	D. Sullivan
2748		Strength of Materials	M/W/Th 8:00-10:20 am	3	P:ENGN.2050 and MATH.1320	E. Hajduk
2/54	ENGN.2070-011	Dynamics	M/W/Th 10:30 am-12:50 pm	3	P:ENGN.2050 and MATH.1320	S. Pagsuyoin
COM	IPUTER SCIENCE		(See also Information Ted	hnol	pgy)	
2668	COMP.1010-011	Computing I	M/W/Th 10:30 am- 12:50 pm	3		S. Lin
2670	COMP.1020-001	Computing II	M/W/Th 11:30 am-12:45 pm	3	P: COMP.1010, COMP.1030	D. Adams
	COMP.1030L-011	Computing I Laboratory	W/TH 1:30-3:50 pm	1(2)		S. Lin
	COMP.1040L-001	Computing II Laboratory	Thurs 2:00-4:20 pm	1(2)	C: COMP.1020	D. Adams
	COMP.1130-061	Exploring the Internet	Online Course	3	Non-CS Majors only; requires access to a microphone	T. Watterson
	COMP.2010-001 COMP.3040-085	Computing III Foundations of Computer Science	M/W/Th 9:55-11:15 am M/W/Th 8:00-9:55 am	4	P: COMP.1020 P: COMP.1020 and MATH.3220	D. Adams
	COMP.4040-085	Analysis of Algorithms	M/W/Th 10:30 am-12:25 pm		P: COMP.1020 and MATH.3220 P: COMP.1020, MATH.3220 and MATH.3860	J. McCarthy J. McCarthy
		MP- and MSIT- prefix can be used as Information				- Characterist
						e and the over
	IINAL JUSTICE					
	CRIM.1010-031	The Criminal Justice System	Online Course	3		L. Boyd
	CRIM.1150-061 CRIM.1410-031	Introduction to Homeland Security Introduction to Policing	Online Course Online Course	3		R. Sojka M. Morabito
2486		Introduction to Policing	M/W/Th 10:30 am-12:50 pm	3		C. Levey
487		Technology and the Criminal Justice System	Online Course	3		K. Clarke
2490		Emergency Management	Online Course	3		G. Gordon
492	CRIM.2210-011	Criminology	T/Th 6:00-8:50 pm	3		Dept. Faculty
501		Criminology	Online Course	3		L. Boyd
505		Criminal Law	>Online Course	3		S. Zane
	CRIM.2480-031	Terrorism (international and domestic)	Online Course	3		J. Forest
	CRIM.3260-061	Hate Crimes	>Online Course	3		K. Jordan
	CRIM.3270-031	Violence in America	Online Course	3		F. Spina
520	CRIM.3420-031 CRIM.3600-011	Criminal Profiling	> Online Course	3		D. Carkin
	CRIM.3600-011 CRIM.3600-061	Gender, Race, and Crime Gender, Race, and Crime	M/W 6:00-8:50 pm >Online Course	3		K. Wallace G. Beaudoin
535		Forensic Psychopathology	M/W/Th 1:00-3:20 pm	3		G. Levey
2537		Criminal Justice Research Methods	T/Th 6:00-8:50 pm	3		R. Maroun
540		Criminal Justice Research Methods	Online Course	3		K. Socia
	CRIM.3950-011	Statistics in Criminal Justice	T/Th 6:00-8:50 pm	3		A. Butterfield
2555		Statistics in Criminal Justice	Online Course	3		P. McCormack
3423	CRIM.3970-031	Crime Mapping	>Online Course	3		S. Walfield
2559		Criminal Justice Data Analysis	Online Course	3		A. Callahan
	CRIM.4010-031	Substance Abuse and Crime	Online Course	3		S. Walfield
	CRIM.4780-031	Child Maltreatment	Online Course	3		E. Weeks
	CRIM.4960-011	Criminal Justice Internship questions regarding the Undergraduate Criminal	TBA	3 Dhilin	Junior or Senior Status	R. Corbett
or pe	erriission numbers and	questions regarding the Oridergraduate Chirilinal	Justice Frogram, piease email	riiiip_	_ivicCorriack@urrii.edu	
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	ABASE MANAGEME	INT TECHNOLOGIES	(See Courses Listed Unde	er Info	ormation Technology)	
ECO	NOMICS					
ECO 2544	NOMICS ECON.2010-011	Economics I (Microeconomics)	M/W 6:00-8:50 pm	3	ormation Technology)	H. Khosla
ECO 2544 2544	NOMICS ECON.2010-011 ECON.2010-011	Economics I (Microeconomics) Economics I (Microeconomics)	M/W 6:00-8:50 pm M/W 6:00-8:50 pm	3 3		H. Khosla
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2544 2544 2547 2548	ECON.2010-011 ECON.2010-011 ECON.2010-061 ECON.2010-062	Economics I (Microeconomics) Economics I (Microeconomics) Economics I (Microeconomics) Economics I (Microeconomics)	M/W 6:00-8:50 pm M/W 6:00-8:50 pm >Online Course >Online Course	3 3 3 3		H. Khosla G. Lyn D. Kingsley
2544 2544 2547 2548 2549	ECON.2010-011 ECON.2010-011 ECON.2010-061 ECON.2010-062 ECON.2010-063	Economics I (Microeconomics) Economics I (Microeconomics) Economics I (Microeconomics)	M/W 6:00-8:50 pm M/W 6:00-8:50 pm >Online Course >Online Course >Online Course	3 3 3 3		H. Khosla G. Lyn D. Kingsley M. Carter
2544 2544 2547 2548 2549 2550	ECON.2010-011 ECON.2010-011 ECON.2010-061 ECON.2010-062 ECON.2010-063 ECON.2010-064	Economics I (Microeconomics)	M/W 6:00-8:50 pm M/W 6:00-8:50 pm >Online Course >Online Course	3 3 3 3		H. Khosla G. Lyn D. Kingsley
2544 2544 2547 2548 2549 2550 2560	ECON.2010-011 ECON.2010-011 ECON.2010-061 ECON.2010-062 ECON.2010-063 ECON.2010-064 ECON.2020-011	Economics I (Microeconomics)	M/W 6:00-8:50 pm M/W 6:00-8:50 pm >Online Course >Online Course >Online Course >Online Course	3 3 3 3 3		H. Khosla G. Lyn D. Kingsley M. Carter N. Aman
2544 2544 2547 2548 2549 2550 2560 2659	ECON.2010-011 ECON.2010-011 ECON.2010-061 ECON.2010-062 ECON.2010-063 ECON.2010-064 ECON.2020-011 ECON.2020-061 ECON.2020-062	Economics I (Microeconomics)	M/W 6:00-8:50 pm M/W 6:00-8:50 pm Online Course Online Course Online Course M/W 6:00-8:50 pm	3 3 3 3 3 3		H. Khosla G. Lyn D. Kingsley M. Carter N. Aman P. Machado
2544 2544 2548 2548 2549 2550 2560 2669 2660 2661	ECON.2010-011 ECON.2010-011 ECON.2010-061 ECON.2010-062 ECON.2010-063 ECON.2010-064 ECON.2020-011 ECON.2020-061 ECON.2020-062 ECON.2020-063	Economics I (Microeconomics) Economics II (Macroeconomics)	M/W 6:00-8:50 pm M/W 6:00-8:50 pm Online Course Online Course Online Course M/W 6:00-8:50 pm Online Course Online Course Online Course Online Course Online Course	3 3 3 3 3 3 3 3 3 3		H. Khosla G. Lyn D. Kingsley M. Carter N. Aman P. Machado T. Tempesti
2544 2544 2544 2547 2548 2550 2560 2669 2660 2661	ECON.2010-011 ECON.2010-011 ECON.2010-061 ECON.2010-062 ECON.2010-063 ECON.2010-064 ECON.2020-011 ECON.2020-061 ECON.2020-062 ECON.2020-063 ECON.2110-011	Economics I (Microeconomics) Economics II (Macroeconomics) Statistics for Business and Economics I	M/W 6:00-8:50 pm M/W 6:00-8:50 pm Online Course Online Course Online Course Online Course M/W 6:00-8:50 pm Online Course Online Course Online Course	3 3 3 3 3 3 3 3 3 3 3	P: MATH.1220 or equivalent	H. Khosla G. Lyn D. Kingsley M. Carter N. Aman P. Machado T. Tempesti M. Carter N. Aman K. Khosla
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2544 2544 2547 2548 2549 2560 2660 2661 2662 2663 2664	ECON.2010-011 ECON.2010-011 ECON.2010-061 ECON.2010-062 ECON.2010-063 ECON.2010-064 ECON.2020-061 ECON.2020-061 ECON.2020-062 ECON.2020-063 ECON.2110-061 ECON.2110-061 ECON.3030-061	Economics I (Microeconomics) Economics II (Macroeconomics) Statistics for Business and Economics I Statistics for Business and Economics I Microeconomic Theory	M/W 6:00-8:50 pm M/W 6:00-8:50 pm Online Course Online Course Online Course M/W 6:00-8:50 pm Online Course Online Course Online Course T/Th 6:00-8:50 pm Online Course T/Th 6:00-8:50 pm Online Course Online Course Online Course Online Course	3 3 3 3 3 3 3 3 3 3 3 3 3 3	P: MATH.1220 or equivalent P: MATH.1220 or equivalent P: ECON.2010	H. Khosla G. Lyn D. Kingsley M. Carter N. Aman P. Machado T. Tempesti M. Carter N. Aman K. Khosla M. Quayes M. Quayes
2544 2544 2547 2548 2550 2550 2659 2660 2662 2663 2664 2664	ECON.2010-011 ECON.2010-011 ECON.2010-061 ECON.2010-062 ECON.2010-063 ECON.2010-064 ECON.2020-061 ECON.2020-061 ECON.2020-062 ECON.2020-063 ECON.2110-011 ECON.2110-061 ECON.3030-061 ECON.3040-061	Economics I (Microeconomics) Economics II (Macroeconomics) Economics II (Macroeconomics) Economics II (Macroeconomics) Economics II (Macroeconomics) Statistics for Business and Economics I Statistics for Business and Economics I Microeconomic Theory Macroeconomic Theory	M/W 6:00-8:50 pm M/W 6:00-8:50 pm >Online Course >Online Course >Online Course M/W 6:00-8:50 pm >Online Course	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	P: MATH.1220 or equivalent P: MATH.1220 or equivalent P: ECON.2010 P: ECON.2020	H. Khosla G. Lyn D. Kingsley M. Carter N. Aman P. Machado T. Tempesti M. Carter N. Aman K. Khosla M. Quayes M. Quayes S. Smirnov
2544 2544 2547 2548 2550 2560 2669 2661 2662 2663 2664 2663 2664 2663	ECON.2010-011 ECON.2010-011 ECON.2010-061 ECON.2010-062 ECON.2010-063 ECON.2010-064 ECON.2020-061 ECON.2020-061 ECON.2020-063 ECON.2110-011 ECON.2110-061 ECON.3030-061 ECON.3040-061 ECON.3160-061	Economics I (Microeconomics) Economics II (Macroeconomics) Economics II (Macroeconomics) Economics II (Macroeconomics) Economics II (Macroeconomics) Statistics for Business and Economics I Statistics for Business and Economics I Microeconomic Theory Macroeconomic Theory Investments: Instruments and Strategies	M/W 6:00-8:50 pm M/W 6:00-8:50 pm >Online Course >Online Course >Online Course M/W 6:00-8:50 pm >Online Course	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	P: MATH.1220 or equivalent P: MATH.1220 or equivalent P: ECON.2010 P: ECON.2020 P: ECON.2010	H. Khosla G. Lyn D. Kingsley M. Carter N. Aman P. Machado T. Tempesti M. Carter N. Aman K. Khosla M. Quayes M. Quayes S. Smirnov D. Ornsill
2544 2544 2544 2547 2548 2549 2550 2660 2661 2662 2663 2663 3386 3387	ECON.2010-011 ECON.2010-011 ECON.2010-061 ECON.2010-062 ECON.2010-063 ECON.2010-064 ECON.2020-061 ECON.2020-061 ECON.2020-063 ECON.2110-011 ECON.2110-061 ECON.3030-061 ECON.3040-061 ECON.3180-061	Economics I (Microeconomics) Economics II (Macroeconomics) Economics II (Macroeconomics) Economics II (Macroeconomics) Economics II (Macroeconomics) Statistics for Business and Economics I Statistics for Business and Economics I Microeconomic Theory Macroeconomic Theory Investments: Instruments and Strategies Financial Markets and Monetary Policy	M/W 6:00-8:50 pm M/W 6:00-8:50 pm > Online Course > Online Course > Online Course M/W 6:00-8:50 pm > Online Course	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	P: MATH.1220 or equivalent P: MATH.1220 or equivalent P: ECON.2010 P: ECON.2020 P: ECON.2010 P: ECON.2010 P: ECON.2010	H. Khosla G. Lyn D. Kingsley M. Carter N. Aman P. Machado T. Tempesti M. Carter N. Aman K. Khosla M. Quayes M. Quayes S. Smirnov D. Ornsill S. Smirnov
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ECO 2544 2544 2547 2548 2550 2659 2660 2661 2662 2663 3386 3387 3388	ECON.2010-011 ECON.2010-011 ECON.2010-061 ECON.2010-062 ECON.2010-063 ECON.2010-064 ECON.2020-061 ECON.2020-061 ECON.2020-063 ECON.2110-011 ECON.2110-061 ECON.3030-061 ECON.3040-061 ECON.3180-061	Economics I (Microeconomics) Economics II (Macroeconomics) Economics II (Macroeconomics) Economics II (Macroeconomics) Economics II (Macroeconomics) Statistics for Business and Economics I Statistics for Business and Economics I Microeconomic Theory Macroeconomic Theory Investments: Instruments and Strategies Financial Markets and Monetary Policy	M/W 6:00-8:50 pm M/W 6:00-8:50 pm > Online Course > Online Course > Online Course M/W 6:00-8:50 pm > Online Course	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	P: MATH.1220 or equivalent P: MATH.1220 or equivalent P: ECON.2010 P: ECON.2020 P: ECON.2010 P: ECON.2010 P: ECON.2010	H. Khosla G. Lyn D. Kingsley M. Carter N. Aman P. Machado T. Tempesti M. Carter N. Aman K. Khosla M. Quayes M. Quayes S. Smirnov D. Ornsill S. Smirnov
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2544 2544 2547 2548 2550 2560 2663 2663 2663 2663 2663 2663 2663 26	ECON.2010-011 ECON.2010-011 ECON.2010-061 ECON.2010-062 ECON.2010-063 ECON.2010-064 ECON.2020-061 ECON.2020-061 ECON.2020-063 ECON.2010-061 ECON.2020-063 ECON.2110-011 ECON.2110-061 ECON.3030-061 ECON.3040-061 ECON.3160-061 ECON.3180-061 ECON.3250-061 CATION UTCH.2010-011	Economics I (Microeconomics) Economics II (Macroeconomics) Economics II (Macroeconomics) Economics II (Macroeconomics) Economics II (Macroeconomics) Statistics for Business and Economics I Statistics for Business and Economics I Microeconomic Theory Macroeconomic Theory Investments: Instruments and Strategies Financial Markets and Monetary Policy United States Economic History Knowing and Learning Math and Science	M/W 6:00-8:50 pm M/W 6:00-8:50 pm Online Course Online Course Online Course M/W 6:00-8:50 pm Online Course	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	P: MATH.1220 or equivalent P: MATH.1220 or equivalent P: ECON.2010 P: ECON.2020 P: ECON.2010 P: ECON.2010 and ECON.2020 P: ECON.2010, ECON.2020	H. Khosla G. Lyn D. Kingsley M. Carter N. Aman P. Machado T. Tempesti M. Carter N. Aman K. Khosla M. Quayes M. Quayes S. Smirnov D. Ornsill S. Smirnov Dept. Faculty E. Bobek
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2544 2544 2547 2548 2550 2659 2660 2661 2663 2663 2663 2663 2663 2663 2663	ECON.2010-011 ECON.2010-011 ECON.2010-061 ECON.2010-062 ECON.2010-063 ECON.2010-064 ECON.2020-061 ECON.2020-061 ECON.2020-062 ECON.2020-063 ECON.2010-061 ECON.2020-063 ECON.2110-061 ECON.2010-061 ECON.3030-061 ECON.3180-061 ECON.3180-061 ECON.3250-061 CATION UTCH.2010-011 CTRICAL AND COMP	Economics I (Microeconomics) Economics II (Macroeconomics) Economics II (Macroeconomics) Economics II (Macroeconomics) Economics II (Macroeconomics) Statistics for Business and Economics I Statistics for Business and Economics I Microeconomic Theory Macroeconomic Theory Investments: Instruments and Strategies Financial Markets and Monetary Policy United States Economic History Knowing and Learning Math and Science PUTER ENGINEERING Circuit Theory I Circuit Theory II	M/W 6:00-8:50 pm M/W 6:00-8:50 pm Online Course Online Course Online Course M/W 6:00-8:50 pm Online Course	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	P: MATH.1220 or equivalent P: MATH.1220 or equivalent P: ECON.2010 P: ECON.2020 P: ECON.2010 P: ECON.2010 P: ECON.2010, ECON.2020 P: ECON.2010, ECON.2020 P: ECON.2010, ECON.2020	H. Khosla G. Lyn D. Kingsley M. Carter N. Aman P. Machado T. Tempesti M. Carter N. Aman K. Khosla M. Quayes M. Quayes S. Smirnov D. Ornsill S. Smirnov Dept. Faculty E. Bobek J. Palma F. Tredeau
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2544 2544 2547 2548 2550 2560 2660 2661 2663 2664 2663 2664 2663 2664 2664 2664	ECON.2010-011 ECON.2010-011 ECON.2010-061 ECON.2010-062 ECON.2010-063 ECON.2010-064 ECON.2020-061 ECON.2020-061 ECON.2020-063 ECON.2010-061 ECON.2020-063 ECON.2010-061 ECON.2020-063 ECON.2110-011 ECON.2110-061 ECON.3030-061 ECON.3180-061 ECON.3180-061 ECON.3250-061 CATION UTCH.2010-011 CTRICAL AND COMP	Economics I (Microeconomics) Economics II (Macroeconomics) Statistics for Business and Economics I Statistics for Business and Economics I Microeconomic Theory Macroeconomic Theory Investments: Instruments and Strategies Financial Markets and Monetary Policy United States Economic History Knowing and Learning Math and Science PUTER ENGINEERING Circuit Theory I Circuit Theory II Basic Electrical Engineering Laboratory II Basic Electrical Engineering Laboratory II	M/W 6:00-8:50 pm M/W 6:00-8:50 pm Online Course Online Course Online Course M/W 6:00-8:50 pm Online Course	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	P: MATH.1220 or equivalent P: MATH.1220 or equivalent P: ECON.2010 P: ECON.2010 P: ECON.2010 P: ECON.2010 P: ECON.2010, ECON.2020 P: ECON.2010, ECON.2020 P: ECEC.2010 C or better; C: EECE.2080 C: EECE.2010 P: EECE.2070; C: EECE.2020	H. Khosla G. Lyn D. Kingsley M. Carter N. Aman P. Machado T. Tempesti M. Carter N. Aman K. Khosla M. Quayes M. Quayes S. Smirnov D. Ornsill S. Smirnov Dept. Faculty E. Bobek J. Palma F. Tredeau M. Darish M. Darish
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	No.	Title		Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
NGL			AND STREET			
	ENGL.1010-031	College Writing I	Online Course	3	P: Requires MS Word	E. Bingman
	ENGL.1010-032	College Writing I	Online Course	3	P: Requires MS Word	J. Martin
	ENGL.1020-031	College Writing II	Online Course	3	P: ENGL.1010; requires MS Word	R. Keating
	ENGL.1020-032	College Writing II	Online Course	3	P: ENGL.1010; requires MS Word	C. Archer
	ENGL 1020-033	College Writing II	Online Course	3	P: ENGL.1010; requires MS Word	G. Peartree
	ENGL.1020-034 ENGL.2100-061	College Writing II Drama	Online Course Online Course	3	P: ENGL.1010; requires MS Word	M. Salamone B. Saxton
	ENGL.2110-031 NEW!		Online Course	3		D. Archibald
	ENGL.2120-061	The Short Story	Online Course	3		J. VanderVeen
	ENGL.2120-061	The Short Story	Online Course	3		T. Michaels
	ENGL.2160-061	Monsters, Apes and Nightmares	Online Course	3		T. Avery
	ENGL.2170-061	The Horror Story	Online Course	3	Requires MS Word	L. Mahoney
	ENGL.2170-062	The Horror Story	Online Course	3	Requires MS Word	L. Mahoney
	ENGL.2240-061	Business Writing	Online Course	3	P: ENGL.1020; requires MS Word	C. Perreault
	ENGL.2260-061	Technical and Scientific Communication	Online Course	3	P: ENGL.1020	K. McIssac
199	ENGL.2360-061	Science Fiction and Fantasy	Online Course	3		K. Shrieves
201	ENGL.2380-061	Introduction to Creative Writing	Online Course	3		M. Thibodeau
202	ENGL.2810-061	British Literary Traditions	Online Course	3		M. Hurwitz
	ENGL.2980-061 NEW!		Online Course	3		M. Juchniewicz
	ENGL.3020-031	Creative Writing: Fiction	Online Course	3		A. Johnson
	ENGL.3350-061	American Women Novelists	Online Course	3		J. Pruett
	ENGL.3700-061	Contemporary American Fiction	Online Course	3		T. Tietchen
	ENGL.3820-061	Theatre History I	Online Course	3		S. Barish
	ENGL.4010.031 NEW!		Online Course	3		A. Szczesiul
209	ENGL.4240-061	Shakespeare II	Online Course	3	P: ENGL.1020 or by instructor permission	K. Petersen
NTR	EPRENEURSHIP & I	NNOVATION				
Section 1	ENTR.3610-061	Starting a New Venture	Online Course	3		Y. Yang
	ENTILISOTO GOT	Starting a New Venture	Volume Course	0	unit a property of the propert	1. Tang
VVII	RONMENTAL EARTH	H AND ATMOSPHERIC SCIENCES				
551	ENVI.1150-011	Astronomy	T/Th 7:00-9:50 pm	3		A. O'Brien
	ENVI.1170L-011	Astronomy Lab	M/W 7:00-8:50 pm	1(2)		A. O'Brien
	GEOL.1010-011	General Geology	M/W/Th 10:30 am-12:45 pm	3		L. Weeden
589	GEOL.1030L-011	General Geology Lab	T/Th 3:30-5:30 pm	1(2)		L. Weeden
NAI	NCE	NAME OF TAXABLE PARTY.			with the Control of t	One a distributant
57	FINA.3010-011	Financial Management	T/Th 6:30-9:20 pm	3	P: ACCT.2010, ECON.2010, ECON.2020; COM filter	N. Nguyen
					courses, BSBA Major or Business Minor/BSIT/ASIT with 54+ credits	
758	FINA.3010-061	Financial Management	Online Course	3	P: ACCT.2010, ECON.2010, ECON.2020; COM filter	S. Freund
00	11147.0010 001	Thanca Wanagement	Cimile Course		courses, BSBA Major or Business Minor/BSIT/ASIT	o. Hedrid
					with 54+ credits	
762	FINA.3110-061	Introduction to Financial Statement Analysis	Online Course	3	P: FINA.3010	R. Jain
328	FINA.3210-011	Investments and Portfolio Analysis	T/Th 6:30-9:20 pm	3	P: COM filter courses; BSBA or Business Minor; requires	A. Rehman
					Logarithm calculator	
767	FINA.3210-061	Investments and Portfolio Analysis	Online Course	3	P: COM filter courses; BSBA or Business Minor; requires	F. Andrews
		Drinning of Comments Figure	MAM/ 6:30 0:30 pm		Logarithm calculator P: FINA.3010, FINA.3030, BSBA Majors	A. Rehman
774	EINIA 2210 011				P. FINA 3UTU FINA 3USU BSBA Maiors	A Renman
	FINA.3310-011 FINA.4410-061 NEW!	Principles of Corporate Finance Introduction to Financial Derivatives	M/W 6:30-9:20 pm Online Course	3	P: FINA.3010, FINA.3210	S. Freund
2812	FINA.4410-061 NEW!	Introduction to Financial Derivatives	>Online Course	3	P: FINA.3010, FINA.3210	
2812		Introduction to Financial Derivatives	>Online Course	3		
812	PHIC DESIGN AND D	Introduction to Financial Derivatives	>Online Course	3	P: FINA.3010, FINA.3210	
RAP	PHIC DESIGN AND D	Introduction to Financial Derivatives DIGITAL IMAGING Exercise Physiology I	(See courses listed under Thurs 10:15 am-12:15 pm	3 r Art &	P: FINA.3010, FINA.3210 Ind Information Technology.) P: HSCI.1020, HSCI.1040, HSCI.2520, HSCI.2540	
RAP EAL 728	PHIC DESIGN AND D TH EXER.3050-001 NEW!	Introduction to Financial Derivatives PIGITAL IMAGING Exercise Physiology I (Blended course: Held online and on UML ca	Online Course (See courses listed under Thurs 10:15 am-12:15 pm mpus. Face-to-Face meetings of	3 r Art a	P: FINA.3010, FINA.3210 Ind Information Technology.) P: HSCI.1020, HSCI.1040, HSCI.2520, HSCI.2540	S. Freund K. Coffey
RAF EAL 728	PHIC DESIGN AND D TH EXER.3050-001 NEW!	Introduction to Financial Derivatives PIGITAL IMAGING Exercise Physiology I (Blended course: Held online and on UML ca	Conline Course (See courses listed under Thurs 10:15 am-12:15 pm mpus. Face-to-Face meetings of Wed 2:00-4:50 pm	3 r Art &	P: FINA.3010, FINA.3210 Ind Information Technology.) P: HSCI.1020, HSCI.1040, HSCI.2520, HSCI.2540 sadays)	S. Freund K. Coffey D. Kiel
RAF EAL 728 740 741	PHIC DESIGN AND D TH EXER.3050-001 NEW! EXER.3560-001 EXER.4200-011	Introduction to Financial Derivatives PIGITAL IMAGING Exercise Physiology I (Blended course: Held online and on UML cathernacology Advanced Study/Exercise Physiology	Conline Course (See courses listed under Thurs 10:15 am-12:15 pm mpus. Face-to-Face meetings or Wed 2:00-4:50 pm M/W 10:30 am-12:50 pm	3 r Art a	P: FINA.3010, FINA.3210 Ind Information Technology.) P: HSCI.1020, HSCI.1040, HSCI.2520, HSCI.2540 sdays) Note: Blended course	S. Freund K. Coffey D. Kiel Y. Wu
RAF EAL 728 740 741 685	PHIC DESIGN AND D TH EXER.3050-001 NEW! EXER.3560-001 EXER.4200-011 HSCI.1010-011	Introduction to Financial Derivatives PIGITAL IMAGING Exercise Physiology I (Blended course: Held online and on UML ca Pharmacology Advanced Study/Exercise Physiology Human Anatomy and Physiology I	Thurs 10:15 am-12:15 pm mpus. Face-to-Face meetings of Wed 2:00-4:50 pm M/W 10:30 am-12:50 pm T/Th 6:00-8:50 pm	3 r Art a 4 n Thurs 3 3 3 3	P: FINA.3010, FINA.3210 Ind Information Technology.) P: HSCI.1020, HSCI.1040, HSCI.2520, HSCI.2540 sadays)	S. Freund K. Coffey D. Kiel Y. Wu P. Fierimonte
RAF EAL 728 740 741 685 879	PHIC DESIGN AND D TH EXER.3050-001 NEW! EXER.3560-001 EXER.4200-011 HSCI.1010-011 HSCI.1021-061	Introduction to Financial Derivatives PIGITAL IMAGING Exercise Physiology I (Blended course: Held online and on UML ca Pharmacology Advanced Study/Exercise Physiology Human Anatomy and Physiology I Introduction to Public Health	Thurs 10:15 am-12:15 pm mpus. Face-to-Face meetings of Wed 2:00-4:50 pm M/W 10:30 am-12:50 pm T/Th 6:00-8:50 pm	3 Art a	P: FINA.3010, FINA.3210 Ind Information Technology.) P: HSCI.1020, HSCI.1040, HSCI.2520, HSCI.2540 sdays) Note: Blended course	K. Coffey D. Kiel Y. Wu P. Fierimonte N. Champagne
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RAF EAL 228 440 441 685 879 880	PHIC DESIGN AND D TH EXER.3050-001 NEW! EXER.3560-001 EXER.4200-011 HSCI.1010-011 HSCI.1021-061	Introduction to Financial Derivatives DIGITAL IMAGING Exercise Physiology I (Blended course: Held online and on UML ca Pharmacology Advanced Study/Exercise Physiology Human Anatomy and Physiology I Introduction to Public Health Introduction to Public Health Human Anatomy and Physiology	Thurs 10:15 am-12:15 pm mpus. Face-to-Face meetings of Wed 2:00-4:50 pm M/W 10:30 am-12:50 pm T/Th 6:00-8:50 pm	3 r Art a 4 n Thurs 3 3 3 3 3 3 3	P: FINA.3010, FINA.3210 Ind Information Technology.) P: HSCI.1020, HSCI.1040, HSCI.2520, HSCI.2540 sdays) Note: Blended course	K. Coffey D. Kiel Y. Wu P. Fierimonte N. Champagne
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RAF EAL 728 740 741 685 879 880 689	PHIC DESIGN AND DETERMINENT OF THE EXER.3050-001 NEW! EXER.3560-001 EXER.4200-011 HSCI.1010-011 HSCI.1021-061 HSCI.1021-062 HSCI.1030-011	Introduction to Financial Derivatives DIGITAL IMAGING Exercise Physiology I (Blended course: Held online and on UML ca Pharmacology Advanced Study/Exercise Physiology Human Anatomy and Physiology I Introduction to Public Health Introduction to Public Health Human Anatomy and Physiology	Thurs 10:15 am-12:15 pm mpus. Face-to-Face meetings of Wed 2:00-4:50 pm M/W 10:30 am-12:50 pm T/Th 6:00-8:50 pm Online Course	3 4 An Thurs 3 3 3 3 1(3)	P: FINA.3010, FINA.3210 Ind Information Technology.) P: HSCI.1020, HSCI.1040, HSCI.2520, HSCI.2540 sdays) Note: Blended course C: HSCI.1030 C: HSCI.1010	K. Coffey D. Kiel Y. Wu P. Fierimonte N. Champagne N. Champagne K. Hammerstone
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RAF EAL 728 740 741 685 879 880 689 703	PHIC DESIGN AND DEWINE EXER.3050-001 NEW! EXER.3560-001 EXER.4200-011 HSCI.1010-011 HSCI.1021-061 HSCI.1021-062 HSCI.1030-011 HSCI.2510-011	Introduction to Financial Derivatives PIGITAL IMAGING Exercise Physiology I (Blended course: Held online and on UML ca Pharmacology Advanced Study/Exercise Physiology Human Anatomy and Physiology I Introduction to Public Health Introduction to Public Health Human Anatomy and Physiology Laboratory I Physiological Chemistry I	Thurs 10:15 am-12:15 pm mpus. Face-to-Face meetings of Wed 2:00-4:50 pm M/W 10:30 am-12:50 pm T/Th 6:00-8:50 pm Online Course T/W/Th 11:00 am-2:00 pm M/W 10:00 am-12:00 pm 1:00-3:00 pm	3 4 1 Thurs 3 3 3 3 3 1 (3) 3	P: FINA.3010, FINA.3210 Ind Information Technology.) P: HSCI.1020, HSCI.1040, HSCI.2520, HSCI.2540 sdays) Note: Blended course C: HSCI.1030 C: HSCI.1010 C: HSCI.2530; P: HSCI.1020	K. Coffey D. Kiel Y. Wu P. Fierimonte N. Champagne N. Champagne K. Hammerstone J. Horta
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RAF EAL 728 740 741 685 879 880 689 703 712 890 450	PHIC DESIGN AND DESIGN	Introduction to Financial Derivatives PIGITAL IMAGING Exercise Physiology I (Blended course: Held online and on UML ca Pharmacology Advanced Study/Exercise Physiology Human Anatomy and Physiology I Introduction to Public Health Introduction to Public Health Human Anatomy and Physiology Laboratory I Physiological Chemistry I Physiological Chemistry Laboratory I Introduction to Gerontology	Thurs 10:15 am-12:15 pm mpus. Face-to-Face meetings of Wed 2:00-4:50 pm M/W 10:30 am-12:50 pm T/Th 6:00-8:50 pm Ponline Course T/W/Th 11:00 am-2:00 pm 1:00-3:00 pm T/Th 10:00 am-1:00 pm Ponline Course T/W/Th 10:00 am-1:00 pm Ponline Course Ponline Course T/W/Th 10:00 am-1:00 pm Ponline Course Ponline Cour	3 4 1(3) 3 1(3) 3	P: FINA.3010, FINA.3210 Ind Information Technology.) P: HSCI.1020, HSCI.1040, HSCI.2520, HSCI.2540 sdays) Note: Blended course C: HSCI.1030 C: HSCI.1010 C: HSCI.2530; P: HSCI.1020	K. Coffey D. Kiel Y. Wu P. Fierimonte N. Champagne N. Champagne K. Hammerstone J. Horta B. Geiger R. Gautam
RAF EAL 728 740 741 685 879 880 689 703 712 890 850 881	PHIC DESIGN AND DESIGN	Introduction to Financial Derivatives PIGITAL IMAGING Exercise Physiology I (Blended course: Held online and on UML ca Pharmacology Advanced Study/Exercise Physiology Human Anatomy and Physiology I Introduction to Public Health Introduction to Public Health Human Anatomy and Physiology Laboratory I Physiological Chemistry I Physiological Chemistry Laboratory I Introduction to Gerontology Global Health	Thurs 10:15 am-12:15 pm mpus. Face-to-Face meetings of Wed 2:00-4:50 pm M/W 10:30 am-12:50 pm T/Th 6:00-8:50 pm Ponline Course T/W/Th 11:00 am-2:00 pm M/W 10:00 am-12:00 pm T/Th 10:00 am-1:00 pm Ponline Course T/W/Th 11:00 am-1:00 pm Ponline Course M/W/Th 9:00-11:20 am	3 r Art a 4 n Thurs 3 3 3 1(3) 3 1(3) 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	P: FINA.3010, FINA.3210 Ind Information Technology.) P: HSCI.1020, HSCI.1040, HSCI.2520, HSCI.2540 sdays) Note: Blended course C: HSCI.1030 C: HSCI.1010 C: HSCI.2530; P: HSCI.1020	K. Coffey D. Kiel Y. Wu P. Fierimonte N. Champagne N. Champagne K. Hammerstone J. Horta B. Geiger R. Gautam M. Brunette
RAF FAL 728 740 741 741 743 79 880 689 703 712 890 881 719 880	PHIC DESIGN AND DESIGN	Exercise Physiology I (Blended course: Held online and on UML ca Pharmacology Advanced Study/Exercise Physiology Human Anatomy and Physiology I Introduction to Public Health Introduction to Public Health Human Anatomy and Physiology Laboratory I Physiological Chemistry I Physiological Chemistry Laboratory I Introduction to Gerontology Global Health Legal Issues in Nursing Human Biochemistry Clinical Laboratory Instrumentation	Thurs 10:15 am-12:15 pm mpus. Face-to-Face meetings of Wed 2:00-4:50 pm M/W 10:30 am-12:50 pm T/Th 6:00-8:50 pm Polline Course T/W/Th 11:00 am-2:00 pm M/W 10:00 am-12:00 pm T/Th 10:00 am-1:00 pm Polline Course Pollin	3 r Art a 4 n Thurs 3 3 3 1(3) 3 1(3) 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	P: FINA.3010, FINA.3210 Ind Information Technology.) P: HSCI.1020, HSCI.1040, HSCI.2520, HSCI.2540 sdays) Note: Blended course C: HSCI.1030 C: HSCI.1010 C: HSCI.2530; P: HSCI.1020 C: HSCI.2510	K. Coffey D. Kiel Y. Wu P. Fierimonte N. Champagne N. Champagne K. Hammerstone J. Horta B. Geiger R. Gautam M. Brunette P. Ladebauche
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RAF FAL 728 740 741 741 743 779 880 689 703 712 890 881 719 880 692 693	PHIC DESIGN AND DEWINE PHIC DESIGN AND DESIGN AND DESIGN AND DEWINE PHIC DESIGN AND	Exercise Physiology I (Blended course: Held online and on UML ca Pharmacology Advanced Study/Exercise Physiology Human Anatomy and Physiology I Introduction to Public Health Introduction to Public Health Human Anatomy and Physiology Laboratory I Physiological Chemistry I Physiological Chemistry Laboratory I Introduction to Gerontology Global Health Legal Issues in Nursing Human Biochemistry Clinical Laboratory Instrumentation Human Nutrition Nutrition and Health	Thurs 10:15 am-12:15 pm mpus. Face-to-Face meetings of Wed 2:00-4:50 pm MW 10:30 am-12:50 pm T/Th 6:00-8:50 pm Online Course Online Course T/W/Th 11:00 am-2:00 pm 1:00-3:00 pm T/Th 10:00 am-12:00 pm T/Th 10:00 am-1:00 pm 1:00-3:00 pm 1:00-3:00 pm 1:00-3:15 pm MW/Th 10:30-3:15 pm MW/Th 1:00-3:15	3 r Art a 4 n Thurs 3 3 3 1(3) 3 1(3) 3 3 3 3 3 3 3 3 3 3 3 3 3	P: FINA.3010, FINA.3210 Ind Information Technology.) P: HSCI.1020, HSCI.1040, HSCI.2520, HSCI.2540 sdays) Note: Blended course C: HSCI.1030 C: HSCI.2530; P: HSCI.1020 C: HSCI.2510 P: HSCI.2520	K. Coffey D. Kiel Y. Wu P. Fierimonte N. Champagne N. Champagne K. Hammerstone J. Horta B. Geiger R. Gautam M. Brunette P. Ladebauche T. Wilson M. Garelnabi M. Keyes M. Keyes
RAF FAL 728 740 741 741 743 779 880 689 703 712 890 881 719 880 692 693 694	PHIC DESIGN AND DESIGN	Exercise Physiology I (Blended course: Held online and on UML ca Pharmacology Advanced Study/Exercise Physiology Human Anatomy and Physiology I Introduction to Public Health Introduction to Public Health Human Anatomy and Physiology Laboratory I Physiological Chemistry I Physiological Chemistry Laboratory I Introduction to Gerontology Global Health Legal Issues in Nursing Human Biochemistry Clinical Laboratory Instrumentation Human Nutrition Nutrition and Health Nutrition and Health	Thurs 10:15 am-12:15 pm mpus. Face-to-Face meetings of Wed 2:00-4:50 pm M/W 10:30 am-12:50 pm T/Th 6:00-8:50 pm Polline Course Polline Course T/W/Th 11:00 am-2:00 pm T/Th 10:00 am-1:00 pm Polline Course M/W/Th 10:00 am-1:00 pm Polline Course M/W/Th 10:30 am-1:245 pm M/W/Th 10:30 am-12:45 pm M/W/Th 1:00-3:15 pm M/W/Th 10:30-12:50 pm M/W/Th 1:00-3:20 pm M/W/Th 1:00-3:20 pm	3 r Art a 4 n Thurs 3 3 3 1(3) 3 1(3) 3 3 3 3 3 3 3 3 3 3 3 3	P: FINA.3010, FINA.3210 Ind Information Technology.) P: HSCI.1020, HSCI.1040, HSCI.2520, HSCI.2540 sdays) Note: Blended course C: HSCI.1030 C: HSCI.2530; P: HSCI.1020 C: HSCI.2510 P: HSCI.2520 C: MLSC.3630	K. Coffey D. Kiel Y. Wu P. Fierimonte N. Champagne N. Champagne K. Hammerstone J. Horta B. Geiger R. Gautam M. Brunette P. Ladebauche T. Wilson M. Garelnabi M. Keyes M. Keyes M. Keyes
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SIS No.	No.	Title Sammine Diag	Days Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
2574	INFO.1800-061	Applications Software: Microsoft® Excel	>Online Course	3	P: INFO.2020 or equivalent; requires MS® Excel 2010; Windows based	R. Desmond
2577	INFO.2020-011	Microsoft® Office	T/Th 6:00-8:50 pm	3	Requires MS Office 2013: Windows based	T. Bass
	INFO.2020-061	Microsoft® Office	Online Course	3	Requires MS Office 2013: Windows based	R. Desmond
	INFO.2020-062	Microsoft® Office	Online Course	3	Requires MS Office 2013: Windows based	T. Bass
	INFO.2110-061	Introduction to Programming with C Part I	Online Course	3	No previous programming. experience required; ANSI C/C++ standard compiler required	J. Sears
2579	INFO.2110-062	Introduction to Programming with C Part I	>Online Course	3	No previous programming, experience required; ANSI C/C++ standard compiler required	B. Moscon
2581	INFO.2120-061	Introduction to Programming with C Part II	Online Course	3	P: INFO.2110; requires ANSI C/C++ standard compiler	J. Sears
2583	INFO.2120-062	Introduction to Programming with C Part II	Online Course	3	P: INFO.2110; requires ANSI C/C++ standard compiler	B. Mascon
2586	INFO.2200L-061	Visual Basic	Online Course	3	1. IN O.2110, requires Aivor 6/644 standard compiler	A. Garside
					D. W. d.	
	INFO.2250-031	Survey of Programming Languages	Online Course	3	P: Working knowledge of at least one higher level programming language; requires ANSI C/C++ standard compiler	T. Niesen
2590	INFO.2300-061	Introduction to Multimedia	Online Course	3		M. Lucas
2591		Graphics for Multimedia and the World Wide Web	Online Course	3	P: INFO.2300	R. Howe
2593	INFO.2380-031 NEW!	Website Development: Adobe Dreamweaver (Held May 16-Aug 6 with a two week break: June 19-July 3)	Online Course	3	P: INFO.2910; INFO.2310 recommended. Requires Adobe Dreamweaver**	E. Hutchings
2596	INFO.2480-061	Website Database Implementation	Online Course	3	P: INFO.1710 and INFO.2200; or equivalent background	D. Card
598	INFO.2500-061	E-Commerce	Online Course	3		A. Banafa
600	INFO.2670-061	C Programming	Online Course	3	P: Previous programming experience	T. Niesen
	INFO.2680-061	C++ Programming	Online Course	3	P: INFO.2670 or INFO.2120; requires C++ compiler software	L. Smith
	INFO.2710-061	C# Programming	Online Course	3	P: INFO.2680 or INFO.3010	T. Kostizak
		() [[[[[[[[[[[[[[[[[[[P. INFO.2000 OF INFO.3010	
	INFO.2910-061	Introduction to DHTML	Online Course	3		W. Dubie
	INFO.2910-062	Introduction to DHTML	Online Course	3		K. Wedge
608	INFO.2970-061	Introduction to Java Programming	>Online Course	3	P: Previous programming experience required; requires J2SE Development Kit (JDK) 6.0 or higher	L. Smith
617	INFO.3010-061	Java™ Programming/Windows	Online Course	3	P: INFO.2970 or INFO.2680, req. Sun Java Dev. Kit	E. Kramer
618	INFO.3020-061	JavaScript	>Online Course	3	P: INFO.2910 or knowledge of HTML	D. Sciuto
619	INFO.3030-061	Advanced JAVA Programing	Online Course	3		S. Marks
076	INFO.3040-031 NEW!	JAVA Web Development	Online Course	3		L. Xia
	INFO.3050-061	Survey of Perl/Python/PHP	Online Course	3		S. Marks
	INFO.3060-061	Introduction to XML	Online Course	3	P: INFO.2910	D. Sciuto
					F. INFO.2910	
	INFO.3110-061	Introduction to the Linux/Unix Operating System	Online Course	3		F. Vegliante
	INFO.3110-062	Introduction to the Linux/Unix Operating System	Online Course	3		F. Vegliante
	INFO.3120-061	Shell Scripting	>Online Course	3	P: INFO.3110, and INFO.2670 or INFO.2120	M. Richards
625	INFO.3210-061	LINUX/UNIX System Administration	Online Course	3	P: Shell Scripting experience; required software with text	M. Richards
626	INFO.3600-031	Introduction to Data Structures with C	Online Course	3		T. Kostizak
		Problem Solving with C	Online Course	3		S. McGowan
	INFO.3850-061	Introduction to Information Security	Online Course	3	P: INFO.1600 and INFO.2020, or equivalent	W. Vales
	INFO.4600-061	Computer Ethics	Online Course	3	AND ENDING THE RESERVE AND ALL PROPERTY	S. McGowan
	INFO.4610-061	LANWAN Technologies	Online Course	3	P: INFO.2670 or previous programming experience	E. Barnes
	INFO.4610-062	LAN/WAN Technologies	Online Course	3	P: INFO.2670 or previous programming experience	D. Root
	INFO.4620-061	TCP/IP and Network Architecture	Online Course	3	P: INFO.4610	E. Barnes
	INFO-4640-061	Network Management	Online Course	3	P: INFO.4610	D. Root
	INFO.4660-001	Oracle 11g Data Warehousing Intervals	Sat 1:00-4:00 pm	3	Only open to matriculated certificate students	L. Xia
2637	INFO.4740-031	Relational Database Concepts	Online Course	3	P: INFO.2670	R. Demers
2638	INFO.4770-001	Information Systems I	Wed 6:30-9:20 pm	3		W. Chicoine
	INFO.4800-031	Project-Based Information Systems	Online Course	6	P: Junior status; can be used to replace the sequence of INFO.4770 and INFO.4780	J. Forsyth
2652	INFO.4800-032	Project-Based Information Systems	>Online Course	6	P: Junior status; can be used to replace the sequence of INFO.4770 and INFO.4780	J. Forsyth
	COMP.1130-061	Exploring the Internet	Online Course	3	Non-CS Majors only; requires access to a microphone	T. Watterson

Please note courses with a COMP- prefix can be used as Information Technology electives in the Information Technology program

^{**} Access to Adobe's Creative Cloud Software requires a \$19.99 monthly subscription (student rate). For details, please visit www.adobe.com

LANC	GUAGES		ofer, Linter one ""			
2832	WLFR.1010-031	French 1 and Culture	Online Course	3		D. Boutwell
2834	WLFR.1020-031	French 2 and Culture	Online Course	3	P: WLFR.1010	T. Bentaous
2836	WLFR.2110-031	French 3 and Culture	Online Course	3	P: WLFR.1020 or equivalent	D. Boutwell
2837	WLFR.2120-061	French 4 and Culture	Online Course	3	P: WLFR.2110 or equivalent	C. Salmon
2840	WLSP.1010-061	Spanish 1 and Culture	Online Course	3		K. Vitchkoski
2852	WLSP.1010-062	Spanish 1 and Culture	Online Course	3		B. Alvarado
2855	WLSP.1020-061	Spanish 2 and Culture	Online Course	3	P: WLSP.1010 or equivalent	K. Vitchkoski
2859	WLSP.1020-062	Spanish 2 and Culture	Online Course	3	P: WLSP.1010 or equivalent	E. Legere
2860	WLSP.2110-061	Spanish 3 and Culture	Online Course	3	P: WLSP.1020 or equivalent; requires headset	F. Gonzalez-Arias
2861	WLSP.2110-062	Spanish 3 and Culture	Online Course	3	P: WLSP.1020 or equivalent; requires headset	M. Matz
2862	WLSP.2120-061	Spanish 4 and Culture	Online Course	3	P: WLSP.2110 or equivalent; requires headset	F. Gonzalez-Arias
2867	WLSP.2120-062	Spanish 4 and Culture	Online Course	3	P: WLSP.2110 or equivalent; requires headset	B. Alvardo
LEGA	AL STUDIES AND F	PARALEGAL STUDIES				
2869	LGST.1030-011	Introduction to Paralegal Studies	T/Th 6:00-9:30 pm	3		P. King
2871	LGST.1030-061	Introduction to Paralegal Studies	Online Course	3	A Committee of the Comm	D. Banfield
2872	LGST.2610-031	Introduction to Legal Concepts	Online Course	3		M. Jones
2875	LGST.2620-061	Introduction to Business Law	Online Course	3		W. Toomey
2876	LGST.3700-061	Real Estate Law	Online Course	3		P. Sullivan Talty
2884	LGST.3760-061	Family Law	Online Course	3		M. Bazin
2892	LGST.3870-061	Legal Research Methods	Online Course	3	Requires MS Word	M. Aiken
2894	LGST.3900-061	Litigation	Online Course	3		E. Curran
2896	LGST.3920-061	Wills, Trusts and Estates	Online Course	3		W. Toomey
2899	LGST.4970-001	The Paralegal Practicum	TBA	3	enado impletivo de comercia de la propia en al 15 de entre 24. Palaz Casalle de la comercia de la propia de la comercia de la propia de la comercia de la propia de la comercia	M. Bazin
MAN	AGEMENT		date or server his small re-			
3384	BUSI.1500-051	Business 101	M/W/Th 10:30 am-12:00 pm	3		D. Finch
2865	BUSI.3800-011	Business Ethics	M/W 6:00-8:50 pm	3		E. Magnant
2866	BUSI.3800-061	Business Ethics	Online Course	3		E. Magnant
2863	MGMT.3010-081	Organizational Behavior	Online Course	3	P: MSB filter courses; or Business minor and ACCT.2010 and ECON.2010	S. Freedman
2864	MGMT.3100-081	Human Resources Management	Online Course	3	P: MGMT.3010; preference MG concentrators	B. Hargreaves-Heald
2870	MGMT.4900-011	Strategic Management	M/W 6:00-8:50 pm	3	P: Graduating seniors only; FINA.3010, MKTG.2010, MIST.2010, POMS.3010, MGMT.3010, BSBA students	M. Salach
2873	MGMT.4900-061	Strategic Management	Online Course	3	P: Graduating seniors only; FINA.3010, MKTG.2010, MIST.2010, POMS.3010, MGMT.3010, BSBA students	M. Salach

^{*}Students will not receive credit for both INFO.2670 and the INFO.2110/INFO.2120 sequence.

SIS No.	Course No.	Title advantage and		Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
MARI	KETING		Description of the Control of the Co		Company of the Common C	CONTRACTOR CONTRA
26/1	MKTG.2010-011	Marketing Principles	T/Th 6:00-8:50 pm	3	P: PSYC.1010, SOCI.1010, ECON.2010	T. Morgan
	MKTG.2010-061	Marketing Principles Marketing Principles	Online Course	3	P: PSYC.1010, SOCI.1010, ECON.2010	J. Crooker
	MKTG.2100-011	Professional Communications	M/W/Th 8:00-10:20 am	3		L. Mallen
	MKTG.2100-011 MKTG.2100-061	Professional Communications Professional Communications		3	P: BA, BBA majors	
		Sales and Customer Relations	Online Course	3	P: BA, BBA majors P: MKTG.201; COM Filter	D. Casey S. Powell
	MKTG.3130-061					
	MKTG.3150-011	New Product and Service Management	M/W/ 6:00-8:50 pm	3	P: MTKG.2010, COM Filter; preference marketing concentrate	
	MKTG.4020-061	Buyer Behavior	>Online Course	3	P: MKTG.2010	D. Casey
	MKTG.4070-061	Retailing	>Online Course	3	P: MKTG.2010	Y. Huang
	MKTG.4110-061	Marketing Analytics	Online Course	3	P: MTKG.2010, COM Filter; preference marketing concentrate	
2650	MKTG.4120-061	Global Marketing	⇒ Online Course	3		Y. Huang
651	MKTG.4960-011 NEW!	Current Topics in Marketing: Social Media Marketing	M/W 6:00-8:50 pm	3	P: MKTG.2010; COM Filter	J. Crooker
MATH	HEMATICS				and the second s	
744	MATH.1200-061	Precalculus Mathematics I	Online Course	3	P: Satisfactory score on the Math Placement Exam given the first week of class	A. Doerr
	MATH.1210-011 MATH.1220-011	Management Precalculus Management Calculus	M/W/Th 8:00-10:20 am M/W/Th 10:30 am-12:50 pm	3	MA P: MATH.1190 or MATH.1200 or MATH.1210 or not for	Z. Fardmanesh-Karimy Z. Fardmanesh-Karimy
	MATH.1220-031	Management Calculus	Online Course	3	equivalent; science or engineering majors; MA P: MATH.1190 or MATH.1200 or MATH.1210 or not for	M. Stick
	MATH.1250-011	Calculus A	M/W 6:00-8:50 pm	3	equivalent; science or engineering majors; MA P: MATH.1230; MA	T. Schille
	MATH.1290-011	Calculus IB	M-F 10:30 am-12:20 pm	4	P: MATH.1280; MA, for UML day students only	S. Yeh
	MATH.1310-011	Calculus I	M-F 8:00-9:50 am	4	MA	J. Lahoud
	MATH.1310-012	Calculus I	M-F 10:30 am-12:20 pm	4	MA	J. Lahoud
	MATH.1310-012 MATH.1320-011	Calculus I	M-F 8:00-9:50 am	4	P: MATH.1310; MA	M. Stick
	MATH.1320-011	Calculus II	M-F 10:30 am-12:20 pm	4	P: MATH.1310; MA	R. Brent
	MATH.1320-012 MATH.1320-013	Calculus II	M-F 10:30 am-12:20 pm	4	P. MATH. 1310; MA	J. Weston
		Calculus III	The state of the s	4	P MATH.1310; MA P MATH.1320	J. Weston
		Calculus III	M/W 1:00-2:50 pm Fri 1:00-2:00 pm		P: MATH.1320	C. Ormsby
	MATH 2310-011		M-F 8:00-9:50 am	4		
	MATH 2340 011	Calculus III	M-F 10:30 am-12:20 pm	4	P: MATH 2350 or MATH 1330	V. Prasad
	MATH 2360 011	Differential Equations	M/W 6:00-8:50 pm	3	P: MATH 2350 or MATH 1330	R. Mirie
	MATH 2360-011	Engineering Differential Equations	M-F 8:00-9:50 am	3(4)	P: MATH 2250 or MATH 1320	V. Prasad
	MATH.2830-011	Introduction to Statistics	M/W/Th 8:00-10:20 am	3	P: MATH.1200 or equivalent; MA	A. Olsen
	MATH.2830-012	Introduction to Statistics	M/W 6:00-8:50 pm	3	P: MATH.1200 or equivalent; MA	A. Olsen
	MATH.2830-031	Introduction to Statistics	Online Course	3	P: MATH.1200 or equivalent; MA	H. Troughton
16	MATH.2830-032	Introduction to Statistics	Online Course	3	P: MATH.1200 or equivalent; MA	H. Troughton
19	MATH.2830-033	Introduction to Statistics	Online Course	3	P: MATH.1200 or equivalent; MA	C. Fournier
20	MATH.2830-034	Introduction to Statistics	Online Course	3	P: MATH.1200 or equivalent; MA	C. Fournier
21	MATH.3210-011	Discrete Structures I	M/W 6:00-8:50 pm	3	P:. MATH.1310	A. Penta
	MATH.3210-031	Discrete Structures I	Online Course	3	P: MATH.1310	R. Montenegro
	MATH.3210-061	Discrete Structures I	Online Course	3	P: MATH.1310	A. Doerr
	MATH.3220-011	Discrete Structures II	M/W/Th 10:30 am-12:50 pm	3	P: MATH.1310	R. Montenegro
		Probability and Statistics I	M/W 6:00-8:50 pm		P: MATH.2250 or MATH.1320	C. Venkatesh
26	MATH 3860-011			3		
26 27	MATH 3960-011	And the second s		3		D Montopogra
326 327 329	MATH.3860-012	Probability and Statistics I	M/W/Th 1:00-3:20 pm	3	P: MATH.2250 or MATH.1320	R. Montenegro
826 827 829 830	MATH.3860-012 MATH.4130-011	Probability and Statistics I Mathematical Problem Solving	M/W/Th 1:00-3:20 pm M/W 6:00-8:50 pm	3	P: MATH.2250 or MATH.1320 P: MATH.2210 OR MATH.3210	K. Levasserurr
826 827 829 830 831	MATH.3860-012 MATH.4130-011 MATH.4210-011	Probability and Statistics I Mathematical Problem Solving Abstract Algebra	M/W/Th 1:00-3:20 pm M/W 6:00-8:50 pm T/Th 6:00-8:50 pm	3 3 3	P: MATH.2250 or MATH.1320 P: MATH.2210 OR MATH.3210 P: MATH.2210	K. Levasserurr A. Doerr
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826 827 829 830 831 835 838 *Cree th	MATH.3860-012 MATH.4130-011 MATH.4210-011 MATH.4500-001 MATH.4750-011 edit is given for only one	Probability and Statistics I Mathematical Problem Solving Abstract Algebra Mathematical Modeling Senior Seminar II of the two following courses: MATH.1200 or M. s course listings on the Registrar's web page.	M/W/Th 1:00-3:20 pm M/W 6:00-8:50 pm T/Th 6:00-8:50 pm Mon 3:00-5:50 pm TBA	3 3 3 3 3 urses ar	P: MATH.2250 or MATH.1320 P: MATH.2210 OR MATH.3210 P: MATH.2210 P: MATH.2340 or MATH.2360 P: 93.2310 or permission of instructor	K. Levasserurr A. Doerr J. Eagle-Graham R. Montenegro
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lo.	No.			Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
257	PHIL.2030-031	Introduction to Ethics	Online Course	3		C. Phillips
258	PHIL.2030-032	Introduction to Ethics	>Online Course	3		D. White
60	PHIL.2960-031	Introduction to World Religions	Online Course	3		W. Kaufman
61	PHIL.3340-061	Engineering and Ethics	>Online Course	3		H. Furey
262	PHIL.3750-061	Philosophy of Sex and Love	Online Course	3		C. Hay
124	PHIL.3880-061 NEW!	Latin American Philosophy	Online Course	3		J. Mendoza
HYS	ICS				2007 J. M. M. 1802 - 200 J. 1803 J. 1804 J. 18	
	PHYS.1030-011	General Physics I	M-F 8:00-9:50 am	3(4)	C: PHYS.1030	A. Mittler
238	PHYS.1410-011	Physics I	M-F 8:00-9:50 am	3(4)	C: MATH.1310, PHYS.1410	R. Hardy
241	PHYS.1440-011	Physics II	M-F 8:00-9:50 am	3(4)	P: PHYS.1410. C: MATH.1320, PHYS.1440	K. Sebastian
243	PHYS.1030L-011	General Physics I Lab	M/Th 10:30 am-1:20 pm	1(2)	C: PHYS.1030 or PHYS.2010	A. Mittler
244	PHYS.1030L-012	General Physics I Lab	W/F 10:30 am-1:20 pm	1(2)	C: PHYS.1030 or PHYS.2010	Dept. Faculty
248	PHYS.1410L-011	Physics I Lab	W/F 10:30 am-1:20 pm	1(2)	C: PHYS.1410	R. Hardy
183	PHYS.1410L-012	Physics I Lab	M/Th 10:30-1:20 pm	1(2)	C: PHYS.1410	Dept. Faculty
253	PHYS.1440L-011	Physics II Lab	W/F 10:30 am-1:20 pm	1(2)	P: PHYS.1410L. C: PHYS.1440	Dept. Faculty
256	RADI.1010-061	Radiation and Life	Online Course	3		T. Regan
LAS	TICS		P Maho o lor	my (Formatory III Laboratory	DEN- \$56/6401.MEPO-1
	PTEC.4510-011		M/W 7:00-9:50 pm	3		S. Driscoll
88	PTEC.4520-011	Selected Topics II	M/W 7:00-9:50 pm	3		S. Driscoll
DLIT	ICAL SCIENCE					
01	POLI.1010-001	Introduction to American Politics	M/W 1:00-2:50 pm	3		M. Marietta
	POLI.1010-011		M/W/Th 10:30 am-12:50 pm	3		G. Anthes
	POLI.1010-061	Introduction to American Politics	>Online Course	3		J. Carter
349	POLI.1120-061	Introduction to Comparative Political System	Online Course	3		A. Duran-Martinez
50	POLI.1210-061	Introduction to International Relations	>Online Course	3		J. Carter
53	POLI.2180-061		Online Course	3		J. Gerson/R. Borges
54	POLI.2300-061	Law and the Legal System	>Online Course	3		P. Talty
	POLI.3130-061	Electoral Politics	>Online Course	3		J. Dyck
	POLI.3160-061	Politics and Film	>Online Course	3		J. Gerson
358	POLI.3240-061	Politics of Football	>Online Course	3		R. Borges
SYC	HOLOGY					Salta Balana
	PSYC.1010-011	Introduction to Psychological Science*	M/W/Th 1:00-3:50 pm	3	Requires MS Word	D. Cruz
31	PSYC.1010-061	Introduction to Psychological Science*	>Online Course	3	Requires MS Word	J. Kendrick
32	PSYC.1010-062	Introduction to Psychological Science*	>Online Course	3	Requires MS Word	S. Cappello
	PSYC.2320-061	Psychology of Personality	>Online Course	3	P: or C: PSYC.1010; requires MS Word	J. Kendrick
	PSYC.2550-061	Community Psychology	>Online Course	3	P: or C: PSYC.1010	E. Sanborne
	PSYC.2600-011	Child and Adolescent Development	T/Th 6:00-8:50 pm	3	P: or C: PSYC.1010	C. Davy
	PSYC.2600-061	Child and Adolescent Development	Online Course	3	P: or C: PSYC.1010	P. Trela
	PSYC.2690-011	Research I: Methods	M/W/Th 10:30 am-12:50 pm	3	P: PSYC.1010	A. Frye
	PSYC.2690-061	Research I: Methods	Online Course	3	P: PSYC.1010	D. Arcus
	PSYC.2720-011	Abnormal Psychology	M/W/Th 8:00-10:20 am	3	P: PSYC.1010	A. Crowley
	PSYC.2720-061	Abnormal Psychology	Online Course	3	P: PSYC.1010	J.Theriault
	PSYC.2730-061	Brain, Mind and Behavior	Online Course	.3	P: PSYC.1010	M. Duell
	PSYC.2780-061	Cognitive Psychology	Online Course	3	P: PSYC.1010	Y. Weinstein
	PSYC.3050-061	Psychology and Law	Online Course	3	P: PSYC.1010	S. Block
	PSYC.3350-061	Psychology and Women	Online Course	3	P: PSYC.1010	M. Drake
	PSYC.3450-011	Health Psychology	M/W/Th 1:00-3:50 pm	3	P: PSYC.1010	S. Underwood
	PSYC.3510-061	Human Sexuality	Online Course	3	P: PSYC.1010	M. Duell
	PSYC.3600-061	Adult Development and Aging	Online Course	3	P: PSYC.1010, and PSYC.2600 or equivalent	M. Stanford-Pollock
	PSYC.3610-061	Developmental Psychopathology	Online Course	3	P: PSYC.1010, and PSYC.2600 or equivalent	K. Leondard
	PSYC.3630-061	Introduction to Disability Studies	Online Course	3	P: PSYC.1010	K. Fox
	PSYC.3690-031	Research III. Statistics	Online Course	3	P: PSYC.1010, grade of C or better in PSYC.2690	A. Frye
	PSYC.3750-011	Research III Laboratory	M/W/Th 10:30 am-12:50 pm	3	P: PSYC.2690, PSYC.3690	C. Allen
	PSYC.3750-031	Research III: Laboratory	Online Course	3	P: PSYC.2690, PSYC.3690	M. Duell
960	PSYC.4730-011	Seminar in Social Psychology: Positive Psychology	Wed 1:00-3:20 pm	3	P: PSYC.1010, and PSYC.2690 or equivalent	M. Stanford-Pollock
961	PSYC.4730-061	(Blended course: Held online and on UML cam Seminar in Social Psychology: Social (In) Justice		n Wed	nesdays. Online held on Tuesdays and Thursdays) P: PSYC.1010, and PSYC.2690 or equivalent	J. Sladkova
	PSYC.4770-061	Seminar in Contemporary Trends: Addictions		3	P: PSYC.1010, and PSYC.2690 or equivalent	R. Siegel
	nerly General Psychology		Jimio Odulad		3. 3. 10. 10, and 10 10. 2000 of oquivalent	, ologo
OCI	OLOGY			70		
	SOCI.1010-061	Introduction to Sociology	>Online Course	3		M. Slone
	SOCI.1120-011	Sociology Goes to the Movies	M/W 7:00-9:50 pm	3		W. Lekas
	SOCI.2120-061	Cultures of the World	Online Course	3		D. Lamar
	SOCI.2160-011	Sociology of War and Peace	M/W/Th 10:30 am-12:50 pm		P: SOCI.1010	R. Hudak
	SOCI.2200-061	Self-Assessment and Career Development	Online Course	3		M. Drake
	SOCI.3030-011	Sociology of American Education	M/W/Th 8:00-10:20 am	3	P: SOCI.1010	J. Ellis
	SOCI.3450-061	Urban Sociology	Online Course	3	P: SOCI.1010	D. Lamar
904	SOCI.3510-031	Sociology of Health and Health Care	Online Course	3	P: SOCI.1010	J. Ost
05	SOCI.3710-061	Sociology of Work	Online Course	3	P: SOCI.1010	M. Slone
919	SOCI.3800-061 NEW!	Sociology of Mass Media	Online Course	3	P: SOCI.1010	N. Coleman
TUE	DIO ART		(See also Art and Art His	story)	na Quidt WMM Allandar and texture of the control of	1500 1500 1500
542	AEST.3600-011 NEW!	Aesthetics and Critical Studies of	M-Th 9:00 am-12:00 pm	3	P: ARHI.2040, or Studio Art minor, or Art minor	I. Hess
725	ARTS.2610-011	Graphic Design Photography I	M-Th 9:00 am-3:00 pm	3(6)	P: ARTS.1010, ARTS.1020, ARTS.1550, ARTS.1130,	P. Romaniko
_			T/Th 6:00-8:50 pm		ARTS.1560, ARTS. 2010	
	ARTS.2710-001	Painting I	The County D. C. C. C.	3(6)	P: ARTS.1010, ARTS.1020, ARTS.1550, ARTS.1130,	S. Mishol

WEBSITE DESIGN AND DEVELOPMENT

(See courses listed under Information Technology)

Summer Session II

Classes Begin July 6, 2016

Summer II On Campus (-021): July 6-August 16, 2016

Except as noted: Classes begin on July 6.

M/W Classes begin on Wednesday, July 6 and include 3 FRIDAYS: July 8, July 22 and August 5 at the regularly scheduled hours.

T/Th Classes begin on Thursday, July 7 and include 3 FRIDAYS: July 15 and July 29 and August 12 at the regularly scheduled hours.

Please check course numbers and prerequisites to ensure enrollment in the correct class.

ACCOUNTING

2511 ACCT.4210-021 Auditing T/Th 6:00-8:50 pm 3 P: ACCT.3030 C. Carney

SIS No.	Course No.	Title amangano0 mi		Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
	OGICAL SCIENCES BIOL.1120-021	Principles of Biology II	M/T/Th 8:00-10:20 am	3	tando estrador.	N. Wernick
	BIOL.1180L-021	Experimental Biology II	W/Th 11:00-11:50 am	1(4)		B. Hubbard
3275	BIOL. 2330L-021	Experimental Methods in Biology	W/Th 1:00-3:50 pm T/F 11:00 am-11:50 am	(2) 3	P: BIOL.1180L	J. Choo
			T/F 1:00-4:50 pm			
	BIOL.2400-011 BIOL.2420-011	Evolution, Ecology & Conservation Problems in Evolution, Ecology &	M/W/Th 10:30 am-12:45 pm M/W 1:00-3:20 pm		P: BIOL.1110, BIOL.1120; C: BIOL.2420 C: BIOL.2400	W. Savage W. Savage
		Conservation			C. BIOL.2400	
3288	LIFE.1010-021	Life Science I	T/Th 6:30-9:30 pm	3	page was a fact of the same of a garden	M. Fannon
	MISTRY		and the state of the			
	CHEM.1010-021 CHEM.1120-021	Applied Chemistry for Non-Scientists General Chemistry II	M/W 7:00-9:50 pm T/Th 7:00-9:50 pm	3	P: CHEM.1110 or permission of instructor; C: CHEM.1140	G. Davis D. Lavoie
	CHEM.1140L-021	General Chemistry Laboratory II	T/Th 3:30-6:20 pm		P: CHEM.1130 or permission of instructor; C: CHEM.1120	K. Shih
	CHEM.1220-021	Chemistry II	M/W 2:00-5:15 pm		P: CHEM.1210 and CHEM.1230. C: CHEM.1240	G. Davis
	CHEM.1220-022 CHEM.1240L-021	Chemistry II Chemistry II Laboratory	M/W 6:00-9:50 pm T/Th 7:00-9:50 pm		P: CHEM.1210 and CHEM.1230. C: CHEM.1240 P: CHEM.1230; C: CHEM.1220	J. Horta G. Gajnos
2554	CHEM.1240L-022	Chemistry II Laboratory	T/Th 7:00-9:50 pm		C: CHEM.1220	D. Pyburn
	CHEM.2220-021 CHEM.2300L-021	Organic Chemistry IIA Organic Chemistry II B Laboratory	M-Th 5:30-8:00 pm M/W 1:00-5:00 pm		P: CHEM.2210; C: CHEM.2300 P: CHEM.2290; C: CHEM.2220	K. Reddie
	CHEM.2300L-021	Organic Chemistry II B Laboratory	T/Th 1:00-5:00 pm		P: CHEM.2290; C: CHEM.2220	J. Garcia
CIVIL	. ENGINEERING					
	ENGN.2050-021	Statics	M/W/Th 1:00-3:20 pm	3	P: PHYS.1410; C: MATH.1320	F. Jamil
	ENGN.2060-021 ENGN.2070-021	Strength of Materials Dynamics	M/W/Th 8:00-10:20 am M/W/Th 10:30 am-12:50 pm	3	P: ENGN.2050 and MATH.1320 P: ENGN.2050 and MATH.1320	J. McKelliget D. Sullivan
			14,44,111 10.30 diti-12.30 pm	3	1. ENGN.2000 dru (VIA) (1. 1020	D. Juliivali
	CHEN.2020-021	VG Energy Balance and Introduction to	MAN/Th 1:00.2:20 pm	2	P- CHEN 2010	E Massa
		Thermodynamics	M/W/Th 1:00-3:20 pm	3	P: CHEN.2010	E. Maase
	CHEN.3030-021 CHEN.4030-021	Fluid Mechanics Chemical Reaction Engineering	M/W 6:00-8:50 pm M/W/Th 10:30 am-12:50 pm	3	P: CHEN.2010; C: MATH.2360 or MATH.2340 P: CHEN.3110 with a C- or better; C: CHEM.3440	E. Maase M. Howley
	IINAL JUSTICE					
	CRIM.3980-021	Criminal Justice Data Analysis	M/W 9:00 am-12:00 pm	3	P: CRIM.3900 or PSYC.2690	Dept. Faculty
ECOL	NOMICS				and adding the Secretary partition of the control	
	ECON.2010-021	Economics I (Microeconomics)	M/W 6:00-8:50 pm	3		H. Khosla
2658	ECON.2020-021	Economics II (Macroeconomics)	T/Th 6:00-8:50 pm	3		P. Machado
ELEC	TRICAL AND COM	PUTER ENGINEERING	STATE OF THE RESIDENCE OF		entrale schools and a second reverse the substitute of the second of the	
	EECE.2010-021 EECE.2020-021	Circuit Theory I	M/W/Th 1:00-3:20 pm	3	P: PUBH.1320; C: EECE.2070	A. Paradis
	EECE.2070-021	Circuit Theory II Basic Electrical Engineering Laboratory I	M/W/Th 8:00-10:20 am T/Th 8:00-10:50 am	3 2(3)	P: EECE.2010 C or better; C: EECE.2080 C: EECE.2010	J. Tang M. Darish
	EECE.2080-021	Basic Electrical Engineering Laboratory II	M/W 12:00-2:50 pm	2(3)	P: EECE.2070; C: EECE.2020	J. Tang
3177	EECE.2650-021	Logic Design	M/W/Th 10:30 am-12:50 pm	3	P: ENGN.1080 or COMP.1010 and C- or better in MATH.1320, EE, CP,CS, ME majors only	M. Margala
	EECE.3120-021	Electronics II Laboratory	T/Th 12:00-2:50 pm	2(3)	P: EECE.2010 and EECE.2360	M. Darish
	EECE.3620-021 EECE.3660-021	Signals and Systems I Electronics II	T/Th 2:00-4;50 pm M/W/Th 8:00-10:20 am	3	P: EECE.2020 and MATH.2360	M. Mah'd
	EECE.4240-021	Computational Methods for Power Systems	T/Th 6:00-8:50 pm	3	P: EECE.3650; C: EECE.3120 P: EECE.2020	D. Bowden M. Mah'd
2207	EECE.4500-021	Analysis Advanced Digital System Design	M/W/Th 1:00-3:20 pm	3	P: EECE.2650, EECE.3660, EECE.3120, and EECE.3170;	M Marrala
				3	or permission of instructor	M. Margala
	EECE.4680-021 EECE.4820-021	Electro-Optics and Fiber Optics Computer Architecture and Design	T/Th 6:00-8:50 pm M/W/Th 5:00-7:50 pm	3	P: EECE.3600 P: EECE.2650, EECE.3170	X. Lu M. Margala
ENGI	ICH	· Control of the cont	EBREETI OFFICE STORES	100		777.7
	ENGL.1010-021	College Writing I	M/W 7:00-9:50 pm	3		P. Lochelt
	ENGL.1020-021	College Writing II	T/Th 7:00-9:50 pm	3	P: ENGL.1010	M. Miller
FINA	NCE	STREETINGS TO THE STREET				
	FINA.3010-021	Financial Management	M/W 6:30-9:20 pm	3	P: ACCT.2010, ECON.2010, ECON.2020; COM filter courses,	L. Sun
2772	FINA.3310-021	Principles of Corporate Finance	MAN/ 6:30 0:30 pm	3	BSBA Major or Business Minor/BSIT/ASIT with 54+ credits	A. Rehman
		, fillolplos of corporate fillalice	M/W 6:30-9:20 pm	3	P: FINA.3010, FINA.3030, BSBA Majors	A. Neimidii
HEAL	TH HSCI.1020-021	Human Anatomy and Physiology II	T/Th 6:00 0:50 ~~	2	D. USC 1010 USC 1000 or opinio C. USC 1010	D Eigeimente
	HSCI.1040-021	Human Anatomy and Physiology	T/Th 6:00-8:50 pm T/W/Th 2:00-5:00 pm	3 1(3)	P: HSCI.1010, HSCI.1030 or equiv.; C: HSCI.1040 P: HSCI.1010, HSCI.1030; C: HSCI.1020	P. Fierimonte J. Daza Saya
2691	HSCI.1040-022	Laboratory II Human Anatomy and Physiology	T/W/Th 11:00 am-2:00 pm	1(3)	P: HSCI.1010, HSCI.1030; C: HSCI.1020	K. Hammerstone
		Laboratory II				
	HSCI.2110-021 HSCI.2130-021	Basic Clinical Microbiology and Pathology Basic Clinical Microbiology and	M-Th 6:00-8:00 pm M-Th 8:00-10:00 pm	3 1(3)	P: HSCI.1020, HSCI.1040; C: HSCI. 2130 C: HSCI.2110	S. Zimmerman S. Zimmerman
2706	HSCI.2520-021	Pathology Laboratory Physiological Chemistry II	M/W 10:00 am-12:00 pm	3	C: HSCI.2540	J. Horta
		(Course ends on 8/12/16)	1:00-3:00 pm		or a Colonia and a second a second and a second a second and a second	Mad Lours Teach
2718	HSCI.2540-021	Physiological Chemistry II Laboratory	T/Th 10:00 am-1:00 pm	1(3)	C: HSCI.2520	B. Geiger
HIST	ORY				Fundamental Company	
	HIST.1110-021 HIST.3650-021	US History to 1877	M/W 6:00-8:50 pm	3	ental Tell	R. Lemire
		United States History since 1960	T/Th 6:30-9:20 pm	3		S. Russell
	THE RESIDENCE OF THE PROPERTY	ARALEGAL STUDIES	MMM 6:00 0:00	•		D.C.
	LGST.2620-021	Introduction to Business Law	M/W 6:00-9:20 pm	3	100000000000000000000000000000000000000	D. Summer
	KETING		(1) (A) (A)		11 11 11 11 11 11 11 11 11 11 11 11 11	
	MKTG.2010-021 MKTG.2100-021	Marketing Principles Professional Communications	M/W 6:00-8:50 pm T/Th 6:00-8:50 pm	3	P: PSYC.1010, SOCI.1010, ECON.2010 P: BA, BBA majors	D. Casey K. Hvizda
	HEMATICS					
aráll.	ILMAIICS	and persons of Arthresis and the Japanese May				
-	MATH.1200-021	Precalculus Mathematics I	M/W 6:30-9:20 pm	3	P: INFO.1110 or equivalent or satisfactory score on the	C. Weston

SIS No.	Course No.	Title samples of	Days Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
2747	MATH.1220-021	Management Calculus	M/W/Th 1:00-3:20 pm	3	P: INFO.1190 or MATH.1200 or MATH.1210 or equivalent; not for science or engineering majors; MA	E. Yankowskas
2752	MATH.1260-021	Calculus B	M/W 6:00-8:50 pm	3	P: MATH.1250; MA	T. Schille
2761	MATH.1310-021	Calculus I	M-F 8:00-9:50 am	4	MA	J. Lahoud
2763	MATH.1310-022	Calculus I	M-F 10:30 am-12:20 pm	4	MA	J. Lahoud
2779	MATH.1320-021	Calculus II	M-F 8:00-9:50 am	4	P: MATH.1310; MA	M. Stick
2781	MATH.1320-022	Calculus II	M-F 10:30 am-12:20 pm	4	P: MATH.1310; MA	J. Weston
2784	MATH.1320-023	Calculus II	M-F 10:30 am-12:20 pm	4	P: MATH.1310; MA	R. Brent
2785	MATH.2210-021	Linear Algebra I	M/W/Th 8:00-10:20 am	3	P: MATH.1320	H. Troughton
2792	MATH.2310-021	Calculus III	M-F 10:30 am-12:20 pm	4	P: MATH.1320; MA	R. Mirie
2798	MATH.2340-021	Differential Equations	M/W 6:00-8:50 pm	3	P: MATH.2250 or MATH.1320	R. Mirie
2811	MATH.2830-021	Introduction to Statistics	M/W/Th 8:00-10:20 am	3	P: MATH.1200 or equivalent; MA	A. Olsen
2813	MATH.2830-022	Introduction to Statistics	M/W 7:00-9:50 pm	3	P: MATH.1200 or equivalent; MA	A. Olsen
2822	MATH.3210-021	Discrete Structures I	M/W 6:00-8:50 pm	3	P: INFO.1120 or MATH.1200	A. Penta
2833	MATH.4350-021	History of Mathematics	M/W 4:00-7:00 pm	3	P: MATH.1320	M. Beyranevand

^{**}Credit is given for only one of the two following courses: MATH.1200 or MATH.1210. University of Massachusetts Lowell day students must have approval from their Department Chairperson before taking courses with INFO prefix. Many 500-level courses are well within the grasp of upper level undergraduates and may be used as electives. See the graduate mathematics course listings on the Registrar's web page.

Regist	trar's web page.	the forest order of the Canada State of the	STATE OF STATE OF STATE OF			7-2017-10-101217.5	
MECH	HANICAL ENGINEER	RING	Charles and the control of the contr		Company of the Compan		1540
2681	ENGN.2050-021	Statics	M/W/Th 1:00-3:20 pm	3	P: PHYS.1410; C: MATH.1320	F. Jamil	
	ENGN.2060-021	Strength of Materials	M/W/Th 8:00-10:20 am	3	P: ENGN.2050 and MATH.1320	J. McKelliget	
	ENGN.2070-021	Dynamics	M/W/Th 10:30 am-12:50 pm	3	P: ENGN.2050 and MATH.1320	D. Sullivan	
	MECH.2420-021	Thermodynamics	T/Th 7:00-9:50 pm	3	P: MATH.1320 or MATH.1420 and PHYS.2450 and CHEM.1210 or CHEM.1350	J. Colluccini	
2698	MECH.3020-021	Instrumentation and Measurement Laboratory	/ M-Th 10:30 am-12:20 pm	3(4)	5 2 3 3 4 1 1 2 3 4 1 0 0 0 4 7 1 1 2 2 2 3 3 1 1 1 1 1 1 1 2 2 2 1 3 1 1 2 2 2 3 1 1 1 2 2 2 2	R. Gowda	200
2699	MECH.3110-021	Applied Strength of Materials	M/W/Th 1:00-3:20 pm	3	P: MECH.2120; C: MECH.2960	K. White	
2710	MECH.3820-021	Heat Transfer	M/W/Th 3:30-5:50 pm	3	P: MECH.3810, MECH.2420	D. Sullivan	
3310	MECH.4420-021	Thermo-fluid Systems Design	M/W/Th 8:00-10:20 am	3	P: MECH.4410	I. Kakhki	
OPER	RATIONS AND INFOR	RMATION SYSTEMS	KATOS GAVE BETTER		and the state of t	att the same of th	to stob
2768	MIST.2010-021	Business Information Systems	M/W/Th 3:30-5:50 pm	3	P: ECON.2110 or MATH.1830 or MATH.2830	H. Kartal	
3335	MIST.4080-021	Enterprise Systems	M/W 6:00-8:50 pm	3	P: MIST.2010 or instructor permission	M. Albashrawi	
2797	POMS.2010-021	Managerial Decision Making	T/Th 6:00-8:50 pm	3	P: ECON.2110 or MATH.1830 or MATH.2830	J. Levy	
2803	POMS.3010-021	Operations Management	T/Th 6:00-8:50 pm	3	P: POMS.2010	E. Early	
	POMS.3010-022	Operations Management	M/W 1:00-4:00 pm	3	P: POMS.2010	A. Oztekin	
		Spotations management					
PARA	ALEGAL STUDIES		(See Legal Studies)				
PHILO	ОЅОРНҮ			1	SCHOOL MUNICIPAL CONTRACTOR CONTR		
	PHIL.2020-021	Introduction to Logic and Critical Reasoning	M/W/Th 10:30 am-12:50 pm			C. Hodapp	
3255	PHIL.2030-021	Introduction to Ethics	M/W/Th 10:30 am-12:50 pm	3		D. White	
PHYS	SICS				36, 9662		
3235	PHYS.1040-021	General Physics II	M-F 8:00-9:50 am	3(4)	P: PHYS.1030; C: PHYS.1040	C. Narayan	
3239	PHYS.1410-021	Physics I	M-F 8:00-9:50 am		C: MATH.1310; PHYS.1410	N. Sullivan	etra ee
	PHYS.1440-021	Physics II	M-F 8:00-9:50 am		P: PHYS.1410; C: MATH.1320, PHYS.1440	A. Danylov	
	PHYS.1040L-021	General Physics II Laboratory	M/Th 10:30 am-1:20 pm		P: PHYS.1030; C: PHYS.1040 or PHYS.2020	Dept. Faculty	
	PHYS.1410L-021	Physics I Laboratory	W/F 10:30 am-1:20 pm		C: PHYS.1410	Dept. Faculty	E PUI
	PHYS.1440L-021	Physics I Laboratory	W/F 10:30 am-1:20 pm		P: PHYS.1410; C: PHYS.1440	Dept. Faculty	
3234	11113.14401-021	1 Hysics II Laboratory	vv/i 10.30 am=1.20 pm	1(2)	1.11113.1410, C.11113.1440	Dept. Faculty	
PLAS	STICS						
	PTEC.4530-021	Selected Topics III	M/W 7:00-9:50 pm	3		S. Driscoll	
2815	PTEC.4540-021	Selected Topics IV	M/W 7:00-9:50 pm	3		S. Driscoll	
POLIT	TICAL SCIENCE					3 - 4 x , 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3	
2844	POLI.1010-021	Introduction to American Politics	T/Th 7:00-9:50 pm	3		G. Polites	
	POLI.1750-021	Introduction to Environmental Politics	T/Th 7:00-9:50 pm	3		V. Gray	
PSYC	CHOLOGY				2012 7 4 6 6 6 7 4 6 6 7 4 6 7 4 7 4 7 4 7 4		
2930	PSYC.1010-021	Introduction to Psychological Science	M/W/Th 8:00-10:20 am	3		A. Weida	
2044	DCVC 20E0 004	(Formerly General Psychology)	MAN/Th 10:20 12:50	2	D. DCVC 1010	II lobares	
	PSYC.3050-021	Psychology and Law	M/W/Th 10:30 am-12:50 pm		P: PSYC.1010	H. Johnson	
	PSYC.3280-021	Dynamics of Interpersonal Relations	M/W 6:00-8:50 pm	3	P: PSYC.1010, Junior or Senior level	P. Hantzis	
2963	PSYC.4750-021	Seminar in Clinical Psychology: Treatment Approaches	M/W/Th 3:30-5:50 pm	3	P: PSYC.1010 and PSYC.2690	P. Hantzis	
SOCI	OLOGY						
	SOCI.1010-021	Introduction to Sociology	M/W 7:00-9:50 pm	3		L. Chorbajian	
	SOCI.2340-021	Race and Ethnicity	M/W/Th 8:00-10:20 am	3	P: SOCI.1010	J. Ellis	
	SOCI.2550-021	Sociology of Deviance	T/Th 7:00-9:50 pm	3	P: SOCI.1010	D. Egan	
	SOCI.2830-021	Social Movements	M/W/Th 10:15 am-12:15 pm		P: SOCI.1010	R. Hudak	
					Market Committee of the		

Summer Session I | Graduate Courses |

Full Term Online Classes (-031): May 16-August 6, 2016 Accelerated Online Classes (-061) May 16-July 23, 2016 Summer I On Campus (-011): May 16-June 27, 2016

Except as noted: Classes begin on May 16.

M/W Classes begin on Monday, May 16 and include 3 FRIDAYS: May 20, June 3 and June 17 at the regularly scheduled hours. **T/Th Classes** begin on Tuesday, May 17 and include 2 FRIDAYS: May 27 and June 10 at the regularly scheduled hours.

Please check course numbers and prerequisites to ensure enrollment in the correct class.

Students interested in applying into Graduate degree or certificate programs should contact the Graduate Admissions Office at 800-656-GRAD or www.uml.edu/grad. In some cases, a student may take only 6 credits prior to matriculating into a formal graduate degree program. Students with Bachelor's degrees from accredited institutions are eligible to enroll as non-degree students for a total of 12 credits prior to matriculating into formal Graduate degree programs. Generally, students must formally apply to graduate certificate programs before enrolling in graduate courses intended for specific certificate programs.

NOTE: The below MBA courses are also open to non-UML grad students who meet course prerequisites. If not currently registered in a program, please contact the MBA Staff at MBA@uml.edu or call 978-934-2848 for permission to take courses.

BIO	LOG	ICA	L SCI	ENIC	F
DIO	LOG	IUA	LOGI	LIVE	JLU

3280 BIOL.5210L-011 Biochemistry Techniques

M/W 11:00-11:50 am M/W 1:00-4:50 pm

2(5) P: or C: BIOL.4190 or BIOL.5190

E. Zagriadskaia

SIS No.	Course No.	Title		Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
BION	IEDICAL ENGINEE	RING	Hereigh enter	44.0	Sun alver 1997 and the second	
3433	BMBT.5000-001	Introduction to Biomedical Engineering and Biotechnology	Wed 6:00-9:20 pm	3	ECTRODICATION	M. O'Connor
3536	BMBT.5160-031	Basic Principles of Nuclear Magnetic Resonance Imaging	Online Course	3		D. Bennet
	NESS ADMINISTR			0	D. MDA/D. giana Castificate/DL D. Fasinassina	I. Casalla Bassasa
	ACCT.5010-081	Financial Accounting	Online Course	2	P: MBA/Business Certificate/Ph.D. Engineering students, or permission of MBA Coordinator	J. Casello Bouges
2523	ACCT.6010-011	Accounting Information for Management Decisions	T/Th 6:00-8:50 pm	3	P: Matriculated MBA students, MBA Foundation Core, or permission of MBA Coordinator	G. Joseph
2526	ACCT.6010-061	Accounting Information for Management Decisions	>Online Course	3	P: Matriculated MBA students, MBA Foundation Core, or permission of MBA Coordinator	L. Andrusaitis
2528	ACCT.6020-061	Advanced Management and Sustainability Accounting	Online Course	3	P: ACCT. 6010, or permission of MBA Coordinator	G. Joseph
2530	ACCT.6020-062	Advanced Management and	Online Course	3	P: ACCT. 6010, or permission of MBA Coordinator	G. Joseph
2612	ENTR.6400-061	Sustainability Accounting New Venture Creation	Online Course	3	P: ACCT. 6010 Matriculated MBA students, MBA Foundation Core, MSITE program, or PSM sub-plan, or permission of Graduate Program Coordinators.	Y. Yang
2632	ENTR.6500-061	Innovation and Emerging Technology	Online Course	3	P: Matriculated MBA students, MBA Foundation Core, MSITE program, or PSM sub-plan, or permission of Graduate Program Coordinators.	J. O'Donnell
2633	ENTR.6550-061	Corporate Entrepreneurship	Online Course	3	P: Matriculated MBA students, MBA Foundation Core, MSITE program, or PSM sub-plan, or permission of	A. Mehta
2640	ENTR.6810-001	Capstone II - New Venture	Mon 6:00-8:50 pm	3	Graduate Program Coordinators. P: MSITE program, or PSM sub-plan, or permission of	A. Mehta
2780	FINA.5010-081	Implementation Business Financial Analysis	Online Course	2	Graduate Program Coordinators. Meets every other week P: MBA, Business Cert, or Doctor of Engineering	Y. Puri
2793	FINA.6010-061	Corporate Finance	Online Course	3	majors; ACCT. 5010; or permission of MBA Coordinator P: Matriculated MBA students, MBA Foundation Core,	R. Jain
	FINA.6010-062	Corporate Finance	Online Course	3	or permission of MBA Coordinator P: Matriculated MBA students, MBA Foundation Core,	S. Latif
	FINA.6020-011	Advanced Corporate Finance	M/W 6:00-8:50 pm	3	or permission of MBA Coordinator P: Matriculated MBA students, MBA Foundation Core	C. Kim
	FINA.6110-061	Financial Statement Analysis	Online Course	3	P: Matriculated MBA students, MBA Foundation Core,	S. Latif
2817	FINA.6910-061	International Financial Management	Online Course	3	or permission of MBA Coordinator P: Matriculated MBA students, MBA Foundation Core,	D. Prasad
2877	MGMT.5010-011	Organizational Behavior	T/Th 6:00-8:15 pm	2	or permission of MBA Coordinator P: MBA, Business Cert, or Doctor of Engineering majors;	O. Tines
	MGMT.5010-081	Organizational Behavior		2	or permission of MBA Coordinator P: MBA, Business Cert, or Doctor of Engineering majors;	D. Breyer
			Online Course	2	or permission of MBA Coordinator	
2880	MGMT.5110-081	Global Enterprise and Competition	>Online Course	2	P: MBA, Business Certificate, Doctor of Engineering programs, or permission of MBA Coordinator	A. Mehta
2887	MGMT.5750-061 NE	WI Business Fundamental for Scientists Managing Organizational Change	>Online Course T/Th 6:00-8:50 pm	3	P: This course meets PSM program requirements P: Matriculated MBA students, MBA Foundation Core,	D. Vacarra D. Vacarra
2888	MGMT.6010-061	Managing Organizational Change	>Online Course	3	or permission from MBA Coordinator P: Matriculated MBA students, MBA Foundation Core,	D. Vacarra
	MGMT.6250-011	Negotiations	M/W 6:00-8:50 pm	3	or permission from MBA Coordinator P: Matriculated MBA students, MBA Foundation Core,	T. Kainen
					or permission from MBA Coordinator	E. Chen
	MGMT.6350-061	Project Management	>Online Course	3	P: Matriculated MBA students, MBA Foundation Core, or permission from MBA Coordinator	
	MGMT.6520-081	Human Resources Management	>Online Course	3	P: Matriculated MBA students, MBA Foundation Core, or permission of Graduate Coordinator	B. Hargreaves-Heald
2883	MGMT.6550-011	Mid-Management Skills for the New Business Environment	T/Th 6:00-8:50 pm	3	P: Matriculated MBA students, MBA Foundation Core, or permission from MBA Coordinator	T. Kainen
2885	MGMT.6880-011	Current Topics in Management: Leadership Processes	M/W 6:00-8:50 pm	3	P: Open to Professional MBA Students only	L. Turner
2889	MGMT.6910-061	Strategy Formation and Implementation	Online Course	3	P: ACCT.6010, FINA.6010, MKTG.6010, POMS.6010, MGMT.6010; MBA matriculated students or permission from MBA Coordinator	A. Mehta
2773	MIST.6010-061	Management Information Systems	Online Course	3	P: Matriculated MBA students, MBA Foundation Core, or permission from MBA Coordinator	E. Chen
2774	MIST.6010-062	Management Information Systems	>Online Course	3	P: Matriculated MBA students, MBA Foundation Core, or permission from MBA Coordinator	L. Motiwalla
2775	MIST.6010-063	Management Information Systems	Online Course	3	P: Matriculated MBA students, MBA Foundation Core,	Dept. Faculty
2782	MIST.6070-061	Electronic Business	Online Course	3	or permission from MBA Coordinator P: Matriculated MBA students, MBA Foundation Core,	J. Qin
2653	MKTG.5010-081	Marketing Fundamentals	>Online Course	2	or permission from MBA Coordinator P: MBA, Business Cert, or Doctor of Engineering majors;	J. Crooker
2654	MKTG.5010-085	Marketing Fundamentals	Mon 6:00-8:50 pm	2	ACCT. 5010; or permission of MBA Coordinator P: MBA, Business Cert, or Doctor of Engineering majors;	T. Morgan
		EWI Professional and Scientific Communication	Online Course	3	ACCT. 5010; or permission of MBA Coordinator P: This course meets PSM program requirements	J. Duff
2655	MKTG.6010-061	Customers and Markets	Online Course	3	P: Matriculated MBA Students, MBA Foundation Core, or permission of MBA Coordinator	E. Yoon
2806	POMS.5010-081	Operations Fundamentals	>Online Course	2	P: MBA , Business Certificate, Doctor of Engineering	M. Khan
2921	POMS.6010-061	Operations Management	>Online Course	3	programs, or permission of MBA Coordinator P: Matriculated MBA Students, MBA Foundation Core,	A. Oztekin
2922	POMS.6010-062	Operations Management	Online Course	3	or permission of MBA Coordinator P: Matriculated MBA Students, MBA Foundation Core, or permission of MBA Coordinator	K. Poirier
CHE	MICAL ENGINEERI	NG				
4.000		w! Self Assembly and Nanotechnology	M/W/Th 10:30 am-12:50 pm	3		Z. Gu
2998	CHEN.5370-011	Nanomaterials Characterization I	T/Th 6:00-8:50 pm	3	THE RESIDENCE OF THE PARTY OF T	F. Gao
	CIVE.5610-011	Physical Chemical Treatment Processes	M/W 6:00-8:50 pm	3		X. Zhang
COM	PUTER SCIENCE					
SIES STORY	MSIT.5110-031	Network and System Administration	Online Course	3		H. Lambright
	MSIT.5190-031 MSIT.5310-031	Virtual Systems Project Management	Online Course	3		J. Lu D. Zarrella
3374	MSIT.5320-031	Managing Large Data Sets	Online Course	3		C. Chen
33/2	MSIT.5450-031	Designing and Building a Cybersecurity Program	>Online Course	3		L. Wilson
	MSIT.5620-031	Digital Forensics	Online Course	3		X. Fu

339 C	Course No.	Title		Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
	NAL JUSTICE					
	CRIM.5010-031	Criminological Theory: Foundations	>Online Course	3		L. Siegel
	CRIM.5200-031	Administration of Criminal Justice	>Online Course	3		L. Siegel
569 C		Criminal Profiling	>Online Course	3		J. Brown
	CRIM.5410-061	Forensic Psychology	>Online Course	3		I. Packer
573 C	CRIM.5660-031	Transportation Systems Safety and Security	Online Course	3		G. Gordon
592 C	CRIM.5740-031	Overview of Homeland Security	Online Course	3	and the second second second second	T. Croft
588 C	CRIM.6400-061	Criminal Mind and Behavior	>Online Course	3	4.00	A. Lincoln
582 C	CRIM.5710-031 NEW!	Domestic Terrorism and Violent Extremism	>Online Course	3		J. Day
595 C	CRIM.5720-031	Comparative Terrorism and Counterterrorism	>Online Course	3		J. Forest
501 C	CRIM.5780-031	Intelligence Analysis Policy	>Online Course	3		C. Hickey
114 C	CRIM.5750-031	Contemporary Security Studies	>Online Course	3		C. Kirchofer
345 C	CRIM.5900-031	Descriptive and Inferential Statistics	Online Course	3		D. Faggiani
344 C	CRIM.5910-031	Research Design	>Online Course	3		K. Jordan
	CRIM.6130-031	Law & Public Policy	Online Course	3		C. Harris
	CRIM.6300-061	Victimology	>Online Course	3		E. Buzawa
		Intimate Partner Violence	>Online Course	3		E. Buzawa
	CRIM.6420-061	Sex Crimes and Offenders	Online Course	3		K. Socia
	CRIM.6510-061	Criminal Homicide	>Online Course	3		P. Tracy
	CRIM.6550-031	Substance Abuse and Crime	Online Course	3		W. Palacios
594 C	CRIM.6680-031	Scientific and Technological Dimensions	>Online Course	3		D. Boyd
612 (CRIM.6990-031	of National Security Security Studies Capstone Research Paper	>Online Course	3		J. Forest
		uestions regarding the Criminal Justice Progran			edu.	J. Polest
21104	TION					
-	ATION					
	BIOL.5080-061	Cell Biology for Teachers	Online Course	3		M. Mawn
	DUC.5220-061	Young Adult Literature	Online Course	3	**RL	L. Dagostino
	DUC.6100-061	Teaching Reading in the Content Area	Online Course	3	**RL	J. Brown
	EDUC.6220-061	Managing Resources and Finances	Online Course	3	**EA	D. Troughton
	DUC.6300-061	Educating Diverse Populations	Online Course	3	** CI, EA, RL	M. Kim
	EDUC.6370-061	History and Theory of Curriculum	Online Course	3	**CI, CI (sci)	J. Boccia
	EDUC.6380-061	Curriculum Design K-12	Online Course	3	**CI, CI (sci)	J. Walsh
	EDUC.6410-061	Issues in Staff Development	Online Course	3	**HE	J. Lehoullier
	DUC.6423-061	Program Evaluation	Online Course	3	****	E. O'Brien
	EDUC.6430-061	The Skillful Teacher	Online Course	3	**CI	R. Gower
	EDUC.6431-061	Principalship PK-12	Online Course	3	**EA	J. Gilmore
	DUC.6440-061	Foundations for Practitioner Scholars	Online Course	3	Ed. D Matriculated Only	J. Nehring
	EDUC.6530-061	Capstone Alternative	Online Course	3	Permission of Instructor	M. Scribner-MacLean
	EDUC.6760-061	Exploring the Nature of Science	Online Course	3	**Cl(sci)	S. Lewis X. Newton
		Applied Research Design Engineering for Teachers	Online Course	3	Ed. D Matriculated Only	E. Hajduk
292 E	EECE.5100-011 EECE.5280-011 EECE.5290-011	Digital Signal Processing Alternate Energy Sources Electric Vehicle Technology	M/W 6:00-8:50 pm M/W 6:00-8:50 pm T/Th 6:00-8:50 pm	3 3	P: Permission of instructor P: Permission of instructor	M. Mah'd Z. Salameh Z. Salameh
	EECE.5760-061	Principles of Solid State Devices	>Online Course	3	P: EECE.3650	C. Armiento
224 E	EECE.5830-011	Network Design: Principles, Protocols &	M/W 6:00-8:50 pm	3		A. Paradis
		Applications				
	EECE.5900-011	Fiber Optic Communication	T/Th 6:00-8:50 pm	3		X. Lu
228 E	ECE.7110-011 NEW!	Selected Topics in Electrical Engineering: Introduction to RFID Systems	M/W 6:00-8:50 pm	3		C. Kochakian
EALT	We saw the same section	7,000				
IEALT	TOTAL CONTRACTOR STATE					
589 P	PUBH.5020-051	Organizational Behavior in Healthcare	Tues 5:30-8:30 pm	3		
F00 F	DUDU 5140 001	(Blended Course: Held at UMass Lowell South				R. Holmes
240	PUBH.5140-061	Healthcare Management Clinical Application of Molecular Genetics	Online Course	2		
	MLSC.5800-031	Clinical Application of Molecular Genetics	. 0 . !! 0	3		J. Mahan
720 N	PUBH.5310-061		Online Course	3		J. Mahan T. Namm
720 N 729 P	DI IDLI EEOO O11	Health Informatics	Online Course	3		J. Mahan T. Namm G. Marcus
720 N 729 P 074 P	PUBH.5590-011	Health Informatics Conflict Resolution	Online Course T/Th 6:00-8:50 pm	3 3 3		J. Mahan T. Namm G. Marcus D. Turcotte
720 N 729 P 074 P	PUBH.5590-011 PUBH.6070-001	Health Informatics Conflict Resolution Healthcare Information Systems	> Online Course T/Th 6:00-8:50 pm Tues 5:30-8:30 pm	3		J. Mahan T. Namm G. Marcus
720 N 729 P 074 P 591 P	PUBH.6070-001	Health Informatics Conflict Resolution Healthcare Information Systems (Blended Course: Held at UMass Lowell South	>Online Course T/Th 6:00-8:50 pm Tues 5:30-8:30 pm n Campus and and Online)	3 3 3		J. Mahan T. Namm G. Marcus D. Turcotte P. Grotton
720 N 729 P 074 P 591 P	PUBH.6070-001 PUBH.6070-061	Health Informatics Conflict Resolution Healthcare Information Systems (Blended Course: Held at UMass Lowell South Healthcare Information Systems	>Online Course T/Th 6:00-8:50 pm Tues 5:30-8:30 pm Campus and and Online) >Online Course	3 3 3 3		J. Mahan T. Namm G. Marcus D. Turcotte P. Grotton D. Rose
720 N 729 P 074 P 591 P 732 P 733 P	PUBH.6070-001 PUBH.6070-061 PUBH.6330-061	Health Informatics Conflict Resolution Healthcare Information Systems (Blended Course: Held at UMass Lowell South Healthcare Information Systems Healthcare Database Design	>Online Course T/Th 6:00-8:50 pm Tues 5:30-8:30 pm Campus and and Online) >Online Course >Online Course	3 3 3 3 3		J. Mahan T. Namm G. Marcus D. Turcotte P. Grotton D. Rose G. Robinson
720 N 729 P 074 P 591 P 732 P 733 P 735 P	PUBH.6070-001 PUBH.6070-061 PUBH.6330-061 PUBH.6350-031	Health Informatics Conflict Resolution Healthcare Information Systems (Blended Course: Held at UMass Lowell South Healthcare Information Systems Healthcare Database Design Healthcare Project Management	>Online Course T/Th 6:00-8:50 pm Tues 5:30-8:30 pm Campus and and Online) >Online Course >Online Course >Online Course	3 3 3 3 3 3		J. Mahan T. Namm G. Marcus D. Turcotte P. Grotton D. Rose G. Robinson D. Flodin
720 N 729 P 074 P 591 P 732 P 733 P 735 P	PUBH.6070-001 PUBH.6070-061 PUBH.6330-061	Health Informatics Conflict Resolution Healthcare Information Systems (Blended Course: Held at UMass Lowell South Healthcare Information Systems Healthcare Database Design Healthcare Project Management Strategic Planning in Healthcare and HIT	> Online Course T/Th 6:00-8:50 pm Tues 5:30-8:30 pm Campus and and Online) > Online Course > Online Course > Online Course Mon 5:30-8:30 pm	3 3 3 3 3		J. Mahan T. Namm G. Marcus D. Turcotte P. Grotton D. Rose G. Robinson
720 N 729 P 074 P 591 P 732 P 733 P 735 P 592 P	PUBH.6070-001 PUBH.6070-061 PUBH.6330-061 PUBH.6350-031	Health Informatics Conflict Resolution Healthcare Information Systems (Blended Course: Held at UMass Lowell South Healthcare Information Systems Healthcare Database Design Healthcare Project Management	> Online Course T/Th 6:00-8:50 pm Tues 5:30-8:30 pm Campus and and Online) > Online Course > Online Course > Online Course Mon 5:30-8:30 pm	3 3 3 3 3 3		J. Mahan T. Namm G. Marcus D. Turcotte P. Grotton D. Rose G. Robinson D. Flodin
720 N 729 P 074 P 591 P 732 P 733 P 735 P 592 P	PUBH.6070-001 PUBH.6070-061 PUBH.6330-061 PUBH.6350-031 PUBH.6380-001 PUBH.6390-061	Health Informatics Conflict Resolution Healthcare Information Systems (Blended Course: Held at UMass Lowell South Healthcare Information Systems Healthcare Database Design Healthcare Project Management Strategic Planning in Healthcare and HIT (Blended Course: Held at UMass Lowell South Electronic Health Record Systems	>Online Course T/Th 6:00-8:50 pm Tues 5:30-8:30 pm n Campus and and Online) >Online Course >Online Course Mon 5:30-8:30 pm n Campus and and Online) >Online Course	3 3 3 3 3 3 3 3		J. Mahan T. Namm G. Marcus D. Turcotte P. Grotton D. Rose G. Robinson D. Flodin P. Grotton
720 N 729 P 074 P 591 P 732 P 733 P 735 P 592 P	PUBH.6070-001 PUBH.6070-061 PUBH.6330-061 PUBH.6350-031 PUBH.6380-001 PUBH.6390-061	Health Informatics Conflict Resolution Healthcare Information Systems (Blended Course: Held at UMass Lowell South Healthcare Information Systems Healthcare Database Design Healthcare Project Management Strategic Planning in Healthcare and HIT (Blended Course: Held at UMass Lowell South Electronic Health Record Systems	>Online Course T/Th 6:00-8:50 pm Tues 5:30-8:30 pm n Campus and and Online) >Online Course >Online Course >Online Course Mon 5:30-8:30 pm n Campus and and Online)	3 3 3 3 3 3 3 3		J. Mahan T. Namm G. Marcus D. Turcotte P. Grotton D. Rose G. Robinson D. Flodin P. Grotton M. Meyer
720 M 729 P 074 P 591 P 732 P 733 P 735 P 592 P 737 P	PUBH.6070-001 PUBH.6070-061 PUBH.6330-061 PUBH.6350-031 PUBH.6380-001 PUBH.6390-061 MATION TECHNOL	Health Informatics Conflict Resolution Healthcare Information Systems (Blended Course: Held at UMass Lowell South Healthcare Information Systems Healthcare Database Design Healthcare Project Management Strategic Planning in Healthcare and HIT (Blended Course: Held at UMass Lowell South Electronic Health Record Systems OGY Network and System Administration	>Online Course T/Th 6:00-8:50 pm Tues 5:30-8:30 pm Campus and and Online) >Online Course >Online Course Mon 5:30-8:30 pm Campus and and Online) >Online Course Mon 5:30-8:30 pm Campus and and Online) >Online Course (See also Computer Scients)	3 3 3 3 3 3 3 3		J. Mahan T. Namm G. Marcus D. Turcotte P. Grotton D. Rose G. Robinson D. Flodin P. Grotton M. Meyer
720 M 729 F 729 F 731 F 732 F 733 F 735 F 737 F 737 F 737 F 737 F	PUBH.6070-001 PUBH.6070-061 PUBH.6330-061 PUBH.6380-001 PUBH.6390-061 MATION TECHNOL MSIT.5110-031 MSIT.5190-031	Health Informatics Conflict Resolution Healthcare Information Systems (Blended Course: Held at UMass Lowell South Healthcare Information Systems Healthcare Database Design Healthcare Project Management Strategic Planning in Healthcare and HIT (Blended Course: Held at UMass Lowell South Electronic Health Record Systems OGY Network and System Administration Virtual Systems	>Online Course T/Th 6:00-8:50 pm Tues 5:30-8:30 pm Campus and and Online) >Online Course >Online Course Mon 5:30-8:30 pm Campus and and Online) >Online Course Mon 5:30-8:30 pm Campus and and Online) >Online Course >Online Course >Online Course >Online Course	3 3 3 3 3 3 3 3 3 3		J. Mahan T. Namm G. Marcus D. Turcotte P. Grotton D. Rose G. Robinson D. Flodin P. Grotton M. Meyer H. Lambright J. Lu
720 M 729 F 729 F 731 F 732 F 733 F 735 F 735 F 737 F 737 F 737 F 737 M 737 M	PUBH.6070-001 PUBH.6070-061 PUBH.6330-061 PUBH.6350-031 PUBH.6380-001 PUBH.6390-061 MATION TECHNOL MSIT.5110-031 MSIT.5190-031 MSIT.5310-031	Health Informatics Conflict Resolution Healthcare Information Systems (Blended Course: Held at UMass Lowell South Healthcare Information Systems Healthcare Database Design Healthcare Project Management Strategic Planning in Healthcare and HIT (Blended Course: Held at UMass Lowell South Electronic Health Record Systems OGY Network and System Administration Virtual Systems Project Management	>Online Course T/Th 6:00-8:50 pm Tues 5:30-8:30 pm Campus and and Online) >Online Course >Online Course Mon 5:30-8:30 pm Campus and and Online) >Online Course Mon 5:30-8:30 pm Campus and and Online) >Online Course >Online Course >Online Course >Online Course >Online Course >Online Course	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		J. Mahan T. Namm G. Marcus D. Turcotte P. Grotton D. Rose G. Robinson D. Flodin P. Grotton M. Meyer H. Lambright J. Lu D. Zarrella
720 M 729 F 729 F 731 F 732 F 733 F 735 F 735 F 737 F 737 F 737 F 737 M 737 M 737 M 737 M 737 M	PUBH.6070-001 PUBH.6070-061 PUBH.6330-061 PUBH.6350-031 PUBH.6380-001 PUBH.6390-061 MATION TECHNOL MSIT.5110-031 MSIT.5310-031 MSIT.5320-031	Health Informatics Conflict Resolution Healthcare Information Systems (Blended Course: Held at UMass Lowell South Healthcare Information Systems Healthcare Database Design Healthcare Project Management Strategic Planning in Healthcare and HIT (Blended Course: Held at UMass Lowell South Electronic Health Record Systems OGY Network and System Administration Virtual Systems Project Management Managing Large Data Sets	> Online Course T/Th 6:00-8:50 pm Tues 5:30-8:30 pm Campus and and Online) > Online Course > Online Course Mon 5:30-8:30 pm Campus and and Online) > Online Course Online Course Online Course > Online Course	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		J. Mahan T. Namm G. Marcus D. Turcotte P. Grotton D. Rose G. Robinson D. Flodin P. Grotton M. Meyer H. Lambright J. Lu D. Zarrella C. Chen
720 M 729 F 729 F 731 F 732 F 733 F 735 F 735 F 737 F 737 F 737 F 737 M 737 M 737 M 737 M 737 M	PUBH.6070-001 PUBH.6070-061 PUBH.6330-061 PUBH.6350-031 PUBH.6380-001 PUBH.6390-061 MATION TECHNOL MSIT.5110-031 MSIT.5190-031 MSIT.5310-031	Health Informatics Conflict Resolution Healthcare Information Systems (Blended Course: Held at UMass Lowell South Healthcare Information Systems Healthcare Database Design Healthcare Project Management Strategic Planning in Healthcare and HIT (Blended Course: Held at UMass Lowell South Electronic Health Record Systems OGY Network and System Administration Virtual Systems Project Management Managing Large Data Sets Designing and Building a Cybersecurity	>Online Course T/Th 6:00-8:50 pm Tues 5:30-8:30 pm Campus and and Online) >Online Course >Online Course Mon 5:30-8:30 pm Campus and and Online) >Online Course Mon 5:30-8:30 pm Campus and and Online) >Online Course >Online Course >Online Course >Online Course >Online Course >Online Course	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		J. Mahan T. Namm G. Marcus D. Turcotte P. Grotton D. Rose G. Robinson D. Flodin P. Grotton M. Meyer H. Lambright J. Lu D. Zarrella
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SUMMER II GRADUATE COURSES

SIS No.	Course No.	Title	Days Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
NUR	SING		(See Health)			
PEAC	E AND CONFLICT ST	TUDIES			Book Bankier	
2727	PCST.5120-011	Community Conflict Resolution	T/Th 6:00-8:50 pm	3		D. Turcotte/ M. Zapata-Turcotte
PROF	ESSIONAL SCIENCE	MASTERS PROGRAM			The state of the s	
		Professional and Scientific Communication Business Fundamentals for Scientists and Engineers	>Online Course >Online Course	3	P: This course meets PSM program requirements P: This course meets PSM program requirements	J. Duff D. Vacarra
PSYC	HOLOGY					
2965	PSYC.5610-031	Introduction to Behavioral Intervention in Autism (Course ends on 8/13/16)	Online Course	3	Coursework in the psychology of child development, or related experience	R. Serna
2966	PSYC.5610-032	Introduction to Behavioral Intervention in Autism (Course ends on 8/13/16)	Online Course	3	P: Coursework in the psychology of child development, or related experience	N. Aguila
2968	PSYC.5610-033		>Online Course	3	P: Coursework in the psychology of child development, or related experience	A. Perry
2970	PSYC.5610-034	Introduction to Behavioral Intervention in Autism (Course ends on 8/13/16)	Online Course	3	P: Coursework in the psychology of child development, or related experience	J. Schmidt
971	PSYC.5620-031	Teaching and Positive Behavioral Support in Autism (Course ends on 8/13/166)	>Online Course	3	P:or C: PSYC.5610	R. Rosales
972	PSYC.5620-032	Teaching and Positive Behavioral Support in Autism (Course ends on 8/13/16)	Online Course	3	P: or C: PSYC.5610	J. Potter
973	PSYC.5620-033	Teaching and Positive Behavioral Support in Autism (Course ends on 8/13/16)	Online Course	3	P: or C: PSYC.5610	Y. Padilla Dalmau
975	PSYC.5630-031 NEW!	Management Strategies in Applied Behavioral Intervention (Course ends on 8/13/16)	>Online Course	3	P: or C: PSYC.5610	R. Markovits
976	PSYC.5650-031	Measurement and Experimental Design in Behavioral Autism (Course ends on 8/13/16)	>Online Course	3	P: or C: PSYC.5610	P. Girolami
977	PSYC.5650-032	Measurement and Experimental Design in Behavioral Autism (Course ends on 8/13/16)	>Online Course	3	P: or C: PSYC.5610	H. Eilers
978	PSYC.5650-033	Measurement and Experimental Design in Behavioral Autism (Course ends on 8/13/16)	Online Course	3	P: or C: PSYC.5610	N. Hausman
979	PSYC.5660-031	Functional Analysis and Treatment of Challenging Behavior (Course ends on 8/13/16)	Online Course	3	P: PSYC.5620	E. Shumate
2980	PSYC.5660-032	Functional Analysis and Treatment of Challenging Behavior (Course ends on 8/13/16)	Online Course	3	P: PSYC.5620	C. Borrero
981	PSYC.5660-033	Functional Analysis and Treatment of Challenging Behavior (Course ends on 8/13/16)	>Online Course	3	P: PSYC.5620	S. Contrucci-Kuhn
982	PSYC.5680-031	Behavioral Intervention Program Models in Autism (Course ends on 8/13/16)	Online Course	3	P: PSYC.5620	D. Shade-Monuteaux
2983	PSYC.5680-032	Behavioral Intervention Program Models in Autism (Course ends on 8/13/16)	Online Course	3	P: PSYC.5620	K. Wagner
2984	PSYC.5680-033	Behavioral Intervention Program Models in Autism (Course ends on 8/13/16)	>Online Course	3	P: PSYC.5620	D. Bicard
2985	PSYC.5720-031	Legal and Ethical Issues in Professional Practice (Course ends on 8/13/16)	Online Course	3	P: PSYC.5650 or PSYC.5660	R. Markovits
2986	PSYC.5720-032	Legal and Ethical Issues in Professional Practice (Course ends on 8/13/16)	Online Course	3	P: PSYC.5650 or PSYC.5660	D. Kuhn
2987	PSYC.5720-033	Legal and Ethical Issues in Professional Practice (Course ends on 8/13/16)	Online Course	3	P: PSYC.5650 or PSYC.5660	D. Bailey
2988	PSYC.6710-001		Tues 6:00-9:30 pm	3	P: PSYC.6720	R. Markovits
2989	PSYC.6730-001	Supervised Practicum in Behavioral Intervention in Autism: III	Thurs 6:00-9:30 pm	3	P: PSYC.6720	D. Shade-Monuteaux
WOR	K ENVIRONMENT					
3074	PUBH.5590-011	Conflict Resolution	T/Th 6:00-8:50 pm	3		D. Turcotte/ M. Zapata-Turcotte

Summer Session II | Graduate Courses | July 6-August 16

Except as noted: Classes begin on July 6.

M/W Classes begin on Wednesday, July 6 and include 3 FRIDAYS: July 8, July 22 and August 5 at the regularly scheduled hours.

T/Th Classes begin on Thursday, July 7 and include 3 FRIDAYS: July 15 and July 29, and August 12 at the regularly scheduled hours.

Please check course numbers and prerequisites to ensure enrollment in the correct class.

Students interested in applying into Graduate degree or certificate programs should contact the Graduate Admissions Office at 800-656-GRAD or www.uml.edu/grad. In some cases, a student may take only 6 credits prior to matriculating into a formal graduate degree program. Students with Bachelor's degrees from accredited institutions are eligible to enroll as non-degree students for a total of 12 credits prior to matriculating into formal Graduate degree programs. Generally, students must formally apply to graduate certificate programs before enrolling in graduate courses intended for specific certificate programs.

NOTE: The following Business Administration courses are also open to non-UML grad students who meet course prerequisites. If not currently registered in a program, please contact the MBA staff at 978-934-2848 for permission to take courses.

BUS	INESS ADMINSTRATI	ON				
2778	FINA.5010-021	Business Financial Analysis	M/W 1:00-3:15 pm	2		B. Bonghi
2808	FINA.6100-021	Global Financial Markets and Monetary Policy	T/Th 6:00-8:50 pm	3		M. Carter
2879	MGMT.5110-021	Global Enterprise and Competition	M/W 6:00-8:15 pm	2	P: MBA, Business Certificate, Doctor of Engineering programs, or permission of MBA Coordinator	M. Salach
2886	MGMT.6910-021	Strategy Formation and Implementation	T/Th 6:00-8:50 pm	3	P: ACCT.6010, FINA.6010, POMS.6010, MGMT.6010; Matriculated MBA students	M. Salach
2810	POMS.6010-021	Operations Management	M/W 6:00-8:50 pm	3		K. Poirier
ELEC	TRICAL AND COMPU	ITER ENGINEERING				
3480	EECE.5130-021	Control Systems	M/W 6:00-8:50 pm	3		M. Mah'd
3291	EECE.5240-021	Computational Methods for Power Systems Analysis	T/Th 6:00-8:50 pm	3		M. Mah'd
3226	EECE.5460-021 NEW!	Communication Networks	M/W 6:00-8:50 pm	3		O. lbe
3294	EECE.5500-021	Advanced Digital System Design	M/W/Th 1:00-3:20 pm	3		M. Margala
3223	EECE.5610-021	Computer Architecture and Design	M/W/Th 5:00-7:50 pm	3		M. Margala
3221	EECE.5680-021 NEW!	Electro-Optics and Fiber Optics	T/Th 6:00-8:50 pm	3		X. Lu
3227	EECE.6600-021 NEW!	Mobile Communication Networks	T/Th 6:00-8:50 pm	3		O. lbe
3229	EECE.7290-021	Selected Topics in Electrical Engineering: Renewable Energy Design	M/W 6:00-8:50 pm	3		Z. Salameh
MAT	HEMATICS					
2846	MATH.5350-021	History of Mathematics	M/W 4:00-7:00 pm	3		M. Beyranevand
PEAG	CE AND CONFLICT ST	TUDIES				
2907	PCST.5550-021	Mediation: Theory and Practice	T/Th 6:00-8:50 pm	3		S. Izen

Graduate Education BUILDS Careers

Earn an Advanced Degree

at UMass Lowell



UMass Lowell prepares students to work in the real-world, solve real problems and help real people.

UMass Lowell offers advanced degrees in engineering, education, health sciences, management, music, sciences and social sciences.

The wide variety of options allows students to develop specialized programs that meet their career and life goals. Top quality academic programs, vigorous hands-on learning and world-class faculty give graduates the combination of knowledge and experience that prepares them to become effective practitioners and industry leaders.

- Top quality programs
- Affordable
- Convenient
- Part-time or full-time study options
- Online and on campus options
- National and Regional Accreditation
- Thesis, project and coursework-only options available in most Master's programs

Many Master's programs offer an internship or field experience and a variety of options that allow you to specialize your degree.

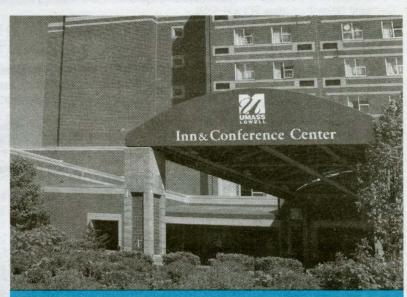
Scholarship opportunities for new, highly qualified, full-time Master's candidates.

No separate application is necessary. Candidates will be considered during admissions review. *Not applicable to online courses/programs offered through the Division of Online and Continuing Education.

Visit www.uml.edu.edu/grad to explore the possibilities.

UMass Lowell Graduate Admissions

Cumnock Hall, Suite 110, 31 University Ave, Lowell, MA 01854-5104



Save the Date!

Fall Graduate Open House and Walk-in Registration

Come and learn which program is right for you!

Wednesday, August 17, 2016 from 3:00 - 7:00 pm

UMass Lowell Inn and Conference Center, 50 Warren Street, Lowell, MA

RSVP at www.uml.edu/Grad/open-house.aspx

Summer Classes begin May 16, 2016 Fall Classes begin September 1, 2016

NEW Graduate Programs

Master of Science in Engineering Management (MSEM)

The Master of Science in Engineering Management (MSEM) program prepares students for prominent leadership roles in Industry, Operations, Engineering Services or Civil Infrastructure Management by providing them with an in-depth background of the modern technical enterprise and different methodologies and principles to develop or enhance new and existing products and systems.

This 31-credit program offers students the opportunity to choose a concentration in 1) Design and Manufacturing; 2) Engineering Services/Infrastructure Management; or 3) Operations and Supply Management. The program may be completed either full-time or part-time, and students can choose either a Professional Capstone Practice or a coursework-only option.

The MSEM is a specialized degree recognized by the new product realization and architectural community that prepares students for a wide range of design, manufacturing and infrastructure management careers. Graduates of this program will have enhanced skills in order to work effectively in a variety of

leadership positions in engineering systems, program management, quality, operations and supply management, as well as consulting services and facilities management. In addition to preparing engineering or business bachelor degree undergrads for careers in engineering management, this program also serves non-engineering or business graduates who wish to pursue technical management careers.

Summer 2016 MSEM Course Offerings

Include: Industrial Design of MECH.5750 Experiment

• MECH. 5760 Engineering Project Management

• ACCT.5010 Financial Accounting • FINA.5010 **Business Financial Analysis**

Marketing Fundamentals MKTG.5010

• POMS.5010 Operations Fundamentals • MGMT.5010 Organizational Behavior

For more information, contact Dr. Sammy Shina

at 978-934-2590 or Sammy_Shina@uml.edu.

Master of Science in **Business Analytics**

The Master of Science in Business Analytics (MSBA) consists of 10 courses (30 credits), including courses in Data Mining, Statistics, Decision Analytics, and Database Management. Students choose a 3-course concentration in either Big Data Analytics, Managerial Decision Making, Marketing Analytics, or Finance Analytics. Along the way, students are exposed to leading-edge analytics software and hardware, including SAS, R, Tableau, SAP ERP, and Bloomberg terminals. Students then complete a capstone project which connects them with industry partners to solve real-world problems using business analytics tools.

Business Analytics is the process of transforming raw data into business intelligence and insight. As companies generate more data at ever faster rates, the need for business analytics professionals is growing. The Master of Science in Business Analytics program will help you:

- Develop the ability to collect, manage, and analyze data from a variety of sources.
- Enhance your understanding of business processes and systems.
- Develop the ability to understand and communicate insights gleaned from descriptive, predictive, and prescriptive analytics.

The program offers maximum flexibility:

- Students may enroll full-time or part-time.
- · Courses are offered in the fall, spring, and summer semesters, allowing full-time students to complete the program in as little as one calendar year.
- Courses are available during the day, the evening or online.

Summer 2016 course offerings include:

- MIST.6070 Electronic Commerce
- Project Management MIST.6450
- MKTG.6010 Customers and Markets

For more information, please contact Dr. Thomas Sloan at 978-934-2857 or Thomas_Sloan@uml.edu.

Master of Education in Education Administration: Higher Education Option

The M.Ed., Education: Higher education Option focuses on policy and practice in Higher Education. Candidates complete 30 credits of coursework, with some courses offered on campus and some online, providing the flexibility for working professionals to complete the degree in a timely and convenient manner

The program is open to individuals who have had substantial experiences in higher education work while undergraduates, or who are currently working in higher education.

For information about the program contact Dr. Charmaine Hickey at Charmaine_Hickey@uml.edu or 978-934-4658.

Online Summer Offerings from the Graduate School of Education include:

- BIOL.5080 Cell Biology for Teachers
- EDUC.5021 Issues, Mandates & Ethics in Special Education
- EDUC.5220 Young Adult Literature
- EDUC.6220 Managing Resources and Finances
- EDUC.6380 Curriculum Design K-12
- EDUC.6410 Issues in Staff Development
- EDUC.6423 Program Evaluation
- EDUC.6760 Exploring the Nature of Science
- ENGN.5010 Engineering for Teachers

See Page 17 for details on these courses!

Explore your opportunities at http://www.uml.edu/Education. UMass Lowell's Graduate School of Education offers graduate degrees at three levels - Master's (M.Ed.), Education Specialist (Ed.S.) and Doctoral (Ed.D. and Ph.D.) - and twelve-credit graduate certificates.



Master of Science in Autism Studies

Autism Spectrum Disorders (ASDs) are behavioral-neurological disorders, typically diagnosed before the age of three, that profoundly affect the young child's ability to communicate, develop language, form social relationships, and respond appropriately to their environments. Recent estimates of prevalence rates in the U.S. are as high as 1 in every 88 children. Unfortunately, there is a critical workforce shortage of professionals capable of meeting the challenges of those afflicted with this disorder. To help meet this shortage, the UML Department of Psychology, in concert with nationally recognized autism specialists from the UMass Medical School's Eunice Kennedy Shriver Center, have developed a new Master of Science in Autism Studies graduate program.

The Master's in Autism Studies is a 42-credit blended program, with both online and on-campus courses.

Graduates of the Master's in Autism Studies will have met all the education and training requirements that will allow them to sit for the national certification exam to become Board Certified Behavior Analysts™.

This is an exciting opportunity for those who wish to advance their knowledge and skills in the area of ASDs with a Master of Science degree.

Summer Course Offerings in Autism Studies include:

- PSYC.5610 Introduction to Behavioral Intervention in Autism
- PSYC.5620 Teaching and Positive Behavioral Support in Autism
- PSYC.5650 Measurement & Experimental Design in Behavioral
- PSYC.5660 Functional Analysis & Treatment of Challenging Behavior
- PSYC.5680 Behavioral Intervention Program Models in Autism • PSYC.5720 Legal & Ethical Issues in Professional Practice
- PSYC.6710 Supervised Practicum in BIA I
- PSYC.6720 Supervised Practicum in BIA II
- PSYC.6730 Supervised Practicum in BIA III

More information on the program can be found at www.uml.edu/FAHSS/Psychology/Graduate/Autism-Studies.aspx or by contacting the graduate coordinator of the program, Dr. Richard W. Serna, at Richard_Serna@uml.edu or 978-934-4385.

Master's Degrees in Security Studies

The Master of Arts and Master of Sciences in Security Studies are the only publically supported master's degree programs in security studies in New England. These 30-credit interdisciplinary programs address critical workforce needs by blending conceptual frameworks and analytical methods to promote learning and research in understanding and finding solutions to the crucial security challenges facing the nation and the world and are available completely online.

The MA emphasizes the policy, social science, behavioral science and legal dimensions of security studies, offering concentrations in international security, industrial and economic security and homeland defense.

The MS degree program emphasizes the intersection of security and applied technologies, engineering and hard sciences and offers concentrations in chemical, biological, radiological, nuclear, and explosives (CBRNE) security, cybersecurity, and critical infrastructure security.

Graduates of these programs may pursue a wide variety of careers in both the public and private sectors including, but not limited to, security analysts, strategy consultants, security program management, law enforcement, environmental protection, and immigration and customs protection and enforcement.

Summer Course Offerings in Security Studies include:

- CRIM.5660 Transportation Systems Safety and Security
- CRIM.5710 Domestic Terrorism & Violent Extremism
- CRIM.5720 Comparative Terrorism and Counterterrorism
- CRIM.5740 Overview of Homeland Security
- CRIM.5780 Intelligence Analysis Policy and Practice
- CRIM.5900 Descriptive & Inferential Statistics
- CRIM.5910 Research Design
- CRIM.6680 Scientific & Technological Dimensions of National Security
- CRIM.6990 Security Studies Capstone Research Paper

For more information visit www.uml.edu/Interdisciplinary/Security-Studies/ or contact James Forest at James_Forest@uml.edu. Also, see the website of the Center for Terrorism and Security Studies for information about faculty and research at www.uml.edu/Research/CTSS/.

Professional Science Master's Programs Scientific Education for the Corporate World

Professional Science Master's (PSM) degree programs are industry-recognized, two-year, non-thesis programs that provide advanced training in science and technology plus business, communication and leadership skills. Paid internships provide opportunities for real-world application in industry and valuable professional connections. Students working full-time while in a PSM program may complete a special project at their place of employment in lieu of an internship.

Programs may be completed on a full or part-time basis.

For more information about the Professional Science Master's options, visit www.uml.edu/psm. To apply, go to www.uml.edu/grad. For more information about the specific Master's programs, contact the Graduate Coordinator of the respective academic department. A complete list may be found at www.uml.edu/Grad/coordinators.aspx.

PSM options are available within the following Master's degree programs:

- Biological Sciences (Applied Biotechnology, Biosafety, Environmental Biotechnology,
- Project Management for Life Sciences)
- · Biomedical Engineering and Biotechnology
- · Chemistry (Chemistry and Polymer Science, Pharmaceutical Biochemistry)
- Clinical Laboratory Sciences
- Computer Science (Entrepreneurship)
- Environmental Sciences (Atmospheric Sciences, Environmental Geoscience)
- Marine Sciences
- · Mathematics (Industrial Mathematics)
- Pharmaceutical Sciences
- Radiological Science and Protection

PSM Plus courses are offered online and are available to PSM students from all four participating UMass campuses. All PSM courses except for the internship sequence are open to students in other degree programs. Courses designed specifically for PSM programs include:

PSMA.5100 Professional Science Master's Internship - Offered Summer 2016

The internship component is expected to be 350 hour minimum and 3-6 month duration. The student will work within a business, government agency or research institute directly related to their area of study. Through this experience the student engages in real world work situations involving technical problems, teamwork, communication skills and decision-making. A student must have completed a minimum of 18 credit hours before commencing the internship. This course records the internship experience and carries zero credits.

MKTG.5450 Professional and Scientific Communication - Offered Summer 2016

Students gain practical experience in effective communication skills by developing both written and oral communication within the context of their professional concentration. Assignments simulate those encountered in the "real-world" including persuasive presentations, oral and written reports, and communications with a variety of audiences including mainstream media and funding sources. The course employs newer technologies to enable students to explore the opportunities and constraints technology places on effective communication. (3 credits)

MGMT.5750 Business Fundamentals for Scientists and Engineers - Offered Summer 2016

This course is designed for science and other non-business professionals seeking to excel as managers. This course will introduce core business principles. Starting with managing ourselves, and others, we will move through the functional business disciplines. There will be weekly, theme-based case studies and related articles that will provide ample opportunity to work individually and in teams. The goal of this course is to build your knowledge of business principles and develop the analytic and practical skills necessary to contribute in decision-making and operations. (3 credits)

Other PSM courses not offered this Summer include:

PSMA.5350 Project Management for Scientists

PSMA.5550 Professional Leadership in Science and Engineering

ENTR.5650 Technological Entrepreneurship

FEATURED CERTIFICATE PROGRAM

Graduate Certificate in Public Health Laboratory Sciences

With today's ever-present threats of emerging infectious diseases, pandemics, food and water-borne illnesses, natural disasters, and biological/chemical attacks, demand for appropriately-trained personnel in public health laboratories, environmental testing facilities, and private medical laboratories has been on the rise.

The Public Health Laboratory Sciences four-course (12 credit), graduate-level certificate program provides healthcare practitioners or individuals holding a bachelor's degree in life sciences, nursing or environmental health with a deeper understanding of the medical sciences behind laboratory testing.

Students have the option of taking this certificate program entirely online, or as a mix of online and on campus courses. In addition to two required core courses, students choose two elective courses from a list of approved courses, depending

Students who take the certificate program also have the option of applying these courses towards UMass Lowell's on-campus Master's Degree in Clinical Lab Sciences.

Program Requirement: Applicants must have a bachelor's degree in life sciences or related area.

Required Courses:

- MLSC.5410 Introduction to Public Health and the Public Health Laboratory
- MLSC.6130 Infectious Disease

Electives - Choose 2:

- PUBH.5080 Principles and Practices of Biological Safety
- PUBH.5160 Laboratory Environmental Health and Safety
- MLSC.5800 Clinical Applications of Molecular Genetics Offered Summer 2016

For additional information, please contact the UMass Lowell Department of Clinical Laboratory and Nutritional Sciences at 978-934-4520.

FEATURED CERTIFICATE PROGRAM

Graduate Certificate in Biomedical Engineering

Image data are of increasing importance in Biomedical Engineering and Biotechnology. The application of microelectronic circuitry, high performance processors, and improved algorithms based on advanced mathematics has resulted in innovative new methodologies to acquire and process image data, permitting visualization, quantification, and functional analysis of tissues and organs.

The Biomedical Engineering Graduate Certificate is a multidisciplinary program, spanning courses in several departments in the College of Engineering including Departments of Electrical and Computer Engineering, Plastics Engineering, Chemical and Nuclear Engineering, as well as the Biomedical Engineering and Biotechnology program. The certificate provides an excellent opportunity to learn the principles and applications of imaging technology. This is a 12 credit program comprised of two required three-credit courses, and two elective three-credit courses.

Required Courses:

- EECE.5110 Medical Diagnostic Imaging
- EECE.5600 Biomedical Instrumentation

Elective Courses: (Students choose two of the following)

- EECE.5100 Digital Signal Processing Offered Summer 2016
- BMBT.5000 Introduction to Biomedical Engineering and Biotechnology Offered Summer 2016
- BMBT.5120 Medical Image Processing
- BMBT.5160 Basic Principles of Magnetic Resonance Imaging Offered Summer 2016
- BMBT.5170 Embedded System Design in Medical Systems
- PUBH.5311 Occupation Biomechanics
- PLAS.5530 Medical Device Design I
- PLAS.5750 Biomaterials I

For more information contact Dr. Mufeed Mah'd at 978-934-3317 or Mufeed Mahd@uml.edu.

Financial Assistance for Graduate Students

Program: Dean's Fellowships

Criteria: Newly admitted full-time, in-state, New England Regional and Proximity Master's candidates not receiving an assistantship will be considered. No additional application required.*

Amount: \$2,000 for one year (\$1,000 per semester for the first two semesters). Students must remain in good academic standing with a minimum 3.0 cumulative GPA. This award is not renewable.

Program: Provost's Fellowships

Criteria: Newly admitted full-time, out-of-state and international Master's candidates not receiving an assistantship will be considered. No additional application required.*

Amount: \$4,000 for one year (\$2,000 per semester for the first two semesters). Students must remain in good academic standing with a minimum 3.0 cumulative GPA. This award is not renewable.

Program: Provost's Fellowship for Teacher Licensure

Criteria: Newly admitted full-time teacher licensure candidates regardless of residency will be considered. No additional application required.*

Amount: \$5,000 for one year (award is split between trimesters – Summer, Fall, Spring) Students must remain in good academic standing with a minimum 3.0 cumulative GPA. This award is not renewable.

Program: Federal Teach Grant

Criteria: Must be a U.S. citizen or eligible non-citizen; maintain a cumulative GPA ≥ 3.25 each semester; be enrolled in coursework or plan to complete coursework toward a career in teaching in a high need subject area UMass Lowell eligible program; complete a TEACH Grant Counseling and sign a TEACH Grant Agreement each year. For additional information go to http://www.uml.edu/thesolutioncenter/financial-aid/Receiving-Aid/Types-Aid/graduate/grants.aspx

Amount: Up to \$4,000/year for two years

*Students completing courses and online programs through the Division of Online and Continuing Education are not eligible.

Federal Loan Programs:

William D. Ford Federal Direct Unsubsidized Loan

(Eligibility does not require demonstrated financial need)

Federal Direct Grad PLUS Loan

(Eligibility does not require demonstrated financial need)

Required for all loan programs: Graduate degree candidates enrolled in 6 credits are eligible to apply. Students must file a Free Application for Federal Student Aid (FAFSA).

For more information go to: www.uml.edu/financialaid

Special Savings Opportunities

New England Regional Student Program*

Applicants from other New England states may be eligible for a tuition rate equal to that of in-state tuition plus 50%. Students must meet the eligibility requirements for their state as well as the University, and must enroll in an approved regional program. Qualifying programs are those not offered on public campuses in a student's home state. For graduate programs eligible for the NERSP, please contact the Office of Graduate Admissions at 978-934-2390 or email graduate admissions@uml.edu

Proximity Rate Program*

The Proximity Rate Program offers reduced tuition to Southern New Hampshire students living within 20 miles of the UMass Lowell campus. For additional information, please contact the Office of Graduate Admissions at 978-934-2390 or visit http://www.uml.edu/thesolutioncenter/bill/tuition-fees/Graduate/

* Proximity and New England Regional Rates apply to graduate degree and certificate programs, *except* for courses offered through the Division of Online and Continuing Education.

To qualify for these special rates you must be a citizen or permanent resident of the U.S.

Graduate Certificate Programs

Not ready for a degree program?



UMass Lowell Graduate Certificates are designed to provide knowledge and expertise vital to today's changing and complex work place. In many cases, courses may be applied toward an appropriate master's degree program. Most certificates consist of four courses (a total of 12 graduate credits). Graduate Certificates are a great way to start or continue your graduate study.

WHO CAN APPLY?

Holders of an appropriate bachelor's degree

HOW TO APPLY?

- Apply online or download an application at www.uml.edu/grad
- Application Fee is \$50.00 for all applicants
- NO Graduate Record Exam (GRE) Required

Did You Know?

- Credits earned from a graduate certificate may be used toward a related graduate degree with the approval of the graduate program coordinator.
- Students who complete a graduate certificate with a cumulative GPA of 3.50 or better in a UMass Lowell graduate certificate program may be able to waive the GRE when applying to a related master's degree.

See the full list of certificate program descriptions, including course details at www.uml.edu/Academics/Graduate-programs

Gainful Employment Disclosure Information

Completion rates, median loan debts and program costs are outlined for each certificate program. Graduate certificate Gainful Employment Disclosure Information may be found at www.uml.edu/Catalog/Graduate/Gainful-Employment-Grad.aspx

GENERAL INFORMATION

See our Website at http://continuinged.uml.edu for detailed information.

You can also visit the Graduate Programs Website at www.uml.edu/grad

The Solution Center Hours

University Crossing, 220 Pawtucket Street, Suite 131 Monday-Thursday: 8:30 am-6:30 pm Friday: 10:00 am-5:00 pm

Division of Online and Continuing Education

Southwick 203, UML North Monday-Thursday: 8:30 am-7:00 pm Friday: 8:30 am-5:00 pm

Holiday Hours and Special Hours

May 25 (University Closed) July 4 (University Closed)

December 9, 2016: Last day for students to complete work for incomplete Spring & Summer 2016 semester courses.

Commencement: May 14, 2016

Phone Directory

I Holle Bilectory	
Online and Continuing Education	(978) 934-2474
Bookstore — UML River Hawk Shop	(978) 934-2623
Faculty and Student Support Center	(978) 934-2474
Fax Number	(978) 934-4006
Registrar's Office	(978) 934-2550
Fax Number	(978) 934-4076
Graduate School of Education	(978) 934-4600
SiS and email HELP Desk	(978) 934-4357
Library — UML North (Alumni/Lydon)	(978) 934-3205
Library — UML South (O'Leary)	(978) 934-4550
UMass Lowell Main Number	(978) 934-4000
UMass Lowell Directions	(978) 934-5800
or www.uml.edu/maps	
Weather Cancellations	(978) 934-2121
The Solution Center	(978) 934-2000
(Financial Aid Billing and Registration	nn)

Academic Information

The University of Massachusetts Lowell is accredited by the New England Association of Schools and Colleges, which accredits schools and colleges in the six New England states. Membership in the Association indicates that the institution has been evaluated carefully and meets the standards agreed upon by qualified educators. The Bachelor degree programs in Electronic Engineering Technology and Mechanical Engineering Technology are accredited by the Engineering Technology Accreditation Commission of the Accreditation Board for Engineering and Technology. The Bachelor of Science in Business Administration (BSBA) is accredited by the AACSB — The International Association for Management Education.

Catalog

Students should refer to the Division of Online and Continuing Education catalog for rules, regulations, program outlines, and course descriptions. The catalog is available online at http://continuinged.uml.edu.

Admission into an Undergraduate Certificate or Degree Program

Students who have graduated from high school or who have earned a high school equivalency certificate are invited to apply for programs leading to a Certificate or an Associate's or Bachelor's degree. Please note: Students may apply to Bachelor's degree programs three years after completing their high school degrees. Applications for all programs are accepted on a rolling admissions basis. Please apply online at our website at http://continuinged.uml.edu/apply.htm for our degree and certificate programs. Note, there is a \$60 non-refundable application fee for admission into the undergraduate degree programs. There is no application fee for a certificate program.

Admission into a Graduate Certificate or Degree Program

Students interested in applying for Graduate degree or certificate programs should access the application on the Graduate Admissions website at: www.uml.edu/grad/. Students with Bachelor's degrees from accredited institutions may be eligible to enroll as non-degree students prior to formally matriculating into a Graduate degree or Certificate program. The non-degree form, including instructions, is available at: http://www.uml.edu/thesolutionscenter/forms.aspx.

Undergraduate Degree Completion

Students who expect to complete their degree requirements in the 2015-2016 academic year must apply for graduation. Details on how to apply for graduation can be found at http://continuinged.uml.edu/policies/graduation.cfm.

Undergraduate Certificate Completion

When a student completes the necessary courses for a certificate program, the student should complete and submit a Certificate Award Petition and exit survey to the Division of Online and Continuing Education. See the and Continuing Education website under Miscellaneous Forms at http://continuinged.uml.edu

IMPORTANT: PLEASE NOTE: Students must have applied for a mission into a certificate program before completing the certificate requirement and the Certificate Completion Form. Failure to do so may affect the awarding of the certificate date and/or receipt of the certificate award. Certificate awarded three times a year: Spring, Summer and Fall.

Course Grades

Grades for the Spring semester will be available on SiS, the Intercampus Student Information System.

Faculty & Student Support Information

Appointments with Faculty Program Coordinators

Students are encouraged to review their transcripts and their curriculum programs. Students may schedule appointments with Faculty Program Coordinators and Faculty and Student Support Specialists to discuss transcript issues, program degree requirements and other academic matters. See the front page of our website at http://continuinged.uml.edu to schedule an appointment with an advisor. The appointments may be held in person, online, by phone, or by Skype. Most appointments are held on UML North in the Faculty and Student Support Center. You may also email our Program Coordinators and Faculty Support Specialists.

Registration Information

See Academic Calendar on page 23 for appropriate registration deadlines.

SiS (Student Information System)

SiS is the online software system UMass Lowell students, faculty and staff use to input and access all types of student information.

Assistance with SiS:

Online web tutorials and video screen casts for all student selfservice features can be accessed by clicking on the 'Information For' link, and selecting Student at http://SiS.uml.edu.

New students to the University must use the mail, fax, walk-in, or new Echo-sign options to register.

Once the new student registration has been processed by the Solution Center, the student will receive an email to his/her personal email account (if provided). The student should go to http://SiS.uml.edu and click on the 'Login information' link

Mail-In Registration:

Fill out the registration form and return it to:

- The Solution Center
 220 Pawtucket Street, Suite 131
 Lowell, MA 01854-5129
- For classroom location and other scheduling information, please visit the Student Information System (SiS).

Fax-In Registration:

Fill out the registration form and fax it to (978) 934-2041.

Email Registration:

Can be emailed to: the solution center @uml.edu

Walk-In Registration is held at the Solution Center, currently located at University Crossing, 220 Pawtucket Street, Suite 131, Lowell, MA 01854-5129.

Echo-Sign

Students can submit an electronic registration form by going to: www.uml.edu/registrar/echosign.aspx.

Students are encouraged to use SiS, the Web-Based Self-Service System whenever possible. Students taking online courses must obtain a UML email address as well as a log-on password.

Financial Information

Tuition is priced on the listed credit hour unless the contact hour is different. Tuition is then based on the listed contact hour. See information on Financial Aid and Scholarships on our website at http://continuinged.uml.edu.

Tuition and Fee Information	Per Credit Contact Hr.
Undergraduate Face-to-Face Tuition	\$340.00
Undergraduate Audit	\$340.00
Undergraduate Online	\$370.00
Undergraduate Online Audit	\$370.00
Graduate Online, On-Campus, and Off-Campus Courses and Audit (except M.B.A.Online and Education Courses)	\$570.00
Graduate Education Courses	\$470.00
M.B.A. Online Courses	\$630.00
Registration Fee per Term (non-refundable)	\$30.00
Late Fee for Non Payment	\$50.00
Fee for Undergraduate Degree application	\$60.00

Please note: Cost per credit includes access fee (parking after 2 pm and access to Blackboard).

*Note: Some tuitions may vary depending on customization and customer and program requirements.

Please note: Graduate students will be assessed a "First-Year Student Services Fee" upon matriculation into a graduate degree or certificate program. Please see the Student Financial Services website at http://www.uml.edu/Tuition-fees/ for more information.

Students who have checks returned due to insufficient funds will be charged a \$30.00 insufficient funds fee.

Student E-Billing Information:

- Students have access to view their bills online at http://www.uml.edu/thesolutioncenter/money/paymentoptions.aspx.
- Students will receive an email notification to their UMass Lowell student email account (e.g., John_Doe@student. uml.edu) when a new bill has been generated.

For more information please go to http://www.uml.edu/

Tuition-fees/Billing-Payment-Information.aspx

Payment Options

The University of Massachusetts Lowell is *no longer directly* accepting cash, credit cards or debit cards for payment of student tuition, and fees, room and board (if applicable).

(Credit cards not accepted over the phone or via the remit portion of the student invoice.) The University has secured the services of TMS (Tuition Management Systems) to process all credit card/debit card transactions. TMS accepts MasterCard, VISA, Discover, American Express, and e-checks. There will be a 2.5% non-refundable convenience fee assessed to each credit card/debit card transaction. The following payment options are also available for paying a student's tuition and fee bill:

- Online: e-checks, credit card, bank check
- Mail: check, money order, bank check
- Monthly Payment Plan processed through TMS
- International Wire Transfers

Overdue Accounts

Students will be permitted to attend class and to utilize facilities only after they have cleared all their financial obligations to the University. In addition, student transcripts and diplomas will not be released until all debts have been paid. All students are advised that the University uses the services of collection agencies authorized under the Commonwealth's Master Service Agreement. Students with a prior semester balance who are not enrolled for the current semester and are referred to a collection agency are held liable for all associated collection fees, which may be substantial.

Directed Studies

Directed Studies, Departmental exams, Practicums, Internships, Applied Music Lessons, etc. are considered Special Programs and, as such, tuition remission, and waivers cannot be accepted.

NOTE: Veterans' Information

We invite all Veterans to contact the Office of Veterans Services at 978-934-2461 or email: Veterans@uml.edu for information on VA benefits and State Veterans Waivers. Waivers must be requested by students matriculated in an undergraduate degree program through the Office of Veterans Services. They are applicable to on campus courses only provided there is space available and there is a sufficient number of tuition paying students enrolled to bear the cost of instruction. Due to the high cost of online, blended, and off campus courses, there are no waivers available for these courses. There are no waivers for Directed Studies, Departmental Exams, Practicums and Internships. Merit and Need Based Assistance grants for online courses may be available to veterans who are presently enrolled in undergraduate degree and certificate programs. To qualify for both a tuition waiver and any merit or need-based assistance, students must be enrolled in a degree or certificate program and making satisfactory academic progress.

International Students

The University of Massachusetts Lowell does not issue a student visa document (i.e., Form I-20 or Form DS-2019, etc.) to students for any Online and Continuing Education Programs. International students presently living in the U.S. who are registering for the Division of Online and Continuing Education classes must provide proof of non-immigrant status. Please submit a copy of: your current visa document (Form I-20, Form DS-2019, Form I-797, Employee Authorization Card, etc.); visa stamp; and I-94 card, https://i94.cbp.dhs.gov/I94/ with your registration form F-1 and J-1 students from another academic institution must obtain the consent of their U.S. sponsoring institution in order to enroll for courses at UMass Lowell. Such consent will be reviewed by the International Students & Scholars Office (ISSO) at UMass Lowell. These students will not be permitted to be full-time or degree seeking students at UMass Lowell while maintaining F-1 or J-1 student status from another academic institution. Students holding B-1 and B-2 status may not register for any academic classes. Students on F-2 spouses and minor children of a legal F-1 student may not engage in a full course of study, but may work towards completion of a degree while on part-time status. The ultimate responsibility to know and follow the U.S. Citizenship & Immigration Services regulations rests upon the students themselves. Please contact the International Students and Scholars Office at, international@uml.edu, with any questions

Third-Party Payment

All students using company direct payment, military plans, state tuition waivers, or veterans' waivers must mail original authorization forms to UMass Lowell, Student Financial Services Office, University Crossing, 220 Pawtucket Street, Suite M30, Lowell, MA 01854-5110. Copies and/or faxes of tuition waivers cannot be honored. Students receiving company reimbursement must prepay their own tuition. The University does not honor company reimbursement contingent upon grades.

Please note that waivers are not retroactive and do not cover registration and other fees.

Academic Calendar

Regular Online Classes (-031): May 16-August 6, 2016 Accelerated Online Classes (-061): May 16-July 23, 2016

The Division of Online and Continuing Education offers students a variety of scheduling options.

- 1. Ten-week Face-to-Face and Online classes meet from May 16 through July 23.
- Twelve-week Face-to-Face and Online classes meet from May 16 through August 6.
- A number of courses meet one day a week spanning May 16 through August 6.
- Eight-week Face-to-Face and Online classes meet from May 16 through July 9.
- 5. Six-week Face-to-Face classes meet from May 16 through June 27 and July 6 through August 16.

Summer Session I

May 16-June 27, 2016

Face-to-Face Classes begin on Monday, May 16.

M/W classes include 3 FRIDAYS: May 20, June 3 and June 17 at the regularly scheduled hours.

T/Th classes begin on Tuesday, May 17 and include 2 FRIDAYS: May 27 and June 10 at the regularly scheduled hours.

Final Examinations

M/W/Th 3-credit courses: Monday, June 27 M-F 4-credit courses: Thursday, June 23 M/W Classes: Wednesday, June 22 T/Th Classes: Thursday, June 23

Summer Session II

July 6-August 16, 2016

Face-to-Face Classes begin on Wednesday, July 6. M/W classes begin on Wednesday, July 6 and include 3 FRIDAYS: July 8, July 22 and August 5

at the regularly scheduled hours. T/Th Evening classes begin on Thursday, July 7

and include 3 FRIDAYS: July 15, July 29, and August 5 at the regularly scheduled hours.

Final Examinations

M/W/Th 3-credit courses: Monday, August 15 M-F 4-credit courses: Friday, August 12 M/W Evening Classes: Wednesday, August 10 T/Th Evening Classes: Friday, August 12

Add/Drop & Withdrawal with "W" notation				
	Add*	Drop	Withdraw with "V	N" notation
			Undergraduate	Graduate
Summer I 5/16-6/27 (Section -01X and -04X)	5/20	5/27	6/15	6/20
Summer II 7/6-8/16 (Section -02X and -04X)	7/12	7/19	7/29	8/5
8-Week Online Courses 5/16-7/9 (Section -080–084)	5/20	5/27	6/24	7/1
8-Week Face to Face Courses 5/16-7/9 (Section -085–089)	5/20	5/27	6/24	7/1
Accelerated Online Courses (10-Week) 5/16-7/23 (Section -06X)	5/20	5/27	7/8	7/15
Accelerated Face to Face Courses (10-Week) 5/16-7/23 (Section -05X)	5/20	5/27	7/8	7/15

Full Term Online Courses (12 week) 5/16-8/6 (Section -03X)

Full Term Face to Face Courses (12 week) 5/16-8/6 (Section -00x and -09x)

*A permission number is required to add a course from 5/21 to 5/27 and 7/13 to 7/19. Add/Drops can be processed in SiS or The Solution Center Office, University Crossing, 220 Pawtucket Street, Suite 131, Lowell

5/20

5/20

Changes from credit to audit and audit to credit status are limited to this two-week period.

Students withdrawing from any class can do so by using SiS, http://sis.uml.edu. Verbal messages to faculty and staff do not constitute official notification.

NOTE: Senior Citizens

Senior citizens (60 years or older) who are Massachusetts residents may attend on campus classes in the Division of Online and Continuing Education credit programs tuition-Online and Continuing Education credit programs tuition-free provided that there is a sufficient number of tuition-paying students enrolled to bear the cost of instruction and provided there is space available. Proof of Massachusetts residency (i.e. MA state taxes, mortgage statement, letter from Town or City Hall or voter's registration), birth date-copy of Massachusetts Driver's License and an "Application for Massachusetts Categorical Tuition Waiver" which can be found on the Solution Center Webpage under forms. This documentation must be provided every academic year at documentation must be provided every academic year at the time of registration. Waivers are not available for online, blended or off-campus courses or for Directed Studies, Departmental Exams, Practicums and Internships.

Refund Schedule for Tuition and Fees

Students who withdraw from the University or drop all of their courses during the add/drop period will receive a 100% adjustment to tuition and fees for the semester except for the following:

- 1) The Division of Online and Continuing Education \$30.00 non-refundable Registration Fee per term.
- 2) Students who are suspended or expelled for disciplinary reasons will forfeit all rights to a tuition and fee adjustment.
- 3) Any book voucher monies advanced to students and used at the bookstore. Students should contact the bookstore at (978) 934-2623 for the refund policy on books and materials purchased directly from them.
- 4) Residence hall charges and meal plan charges follow a different refund schedule. Students should contact the Residence Life Office at (978) 934-5115 for furthe assistance.

Please note: There are no adjustments to tuition and fee charges if students withdraw or drop classes after the add/drop period of the academic semester.

Student records will be cleared and appropriate refunds will be awarded only after outstanding University bills (library fines, parking fines, etc.) are paid and all University-owned property is returned. If debts remain unpaid, students academic permanent records will not be released and students will not be readmitted to the University.

Direct Deposit Refunds

Great news! You can now have refunds from UMass Lowell deposited directly into your bank account. For detailed instructions, visit http://www.uml.edu/thesolutioncenter/ money/Refunds/directdeposit.aspx. Scroll down and select Enroll in Direct Deposit in SiS.

Health Insurance

All matriculating students enrolled in 9 or more credits will be charged for health insurance. Online courses are not considered eligible credits. Students who have comparable health insurance may apply on SiS to waive the charge. Please see the Student Financial Services website at www.uml.edu/thesolutioncenter/bill/health-insurance.aspx for additional information. Please note that all students who withdraw from or drop all of their classes within the first 31 days (calendar days) of the academic semester are not allowed to be enrolled in the University student health

insurance plan. Students taking only online classes will not be eligible for the student insurance

7/22

7/22

7/29

7/29

Financial Aid

5/27

5/27

Financial aid is available for students who qualify. Financial aid consists of grants, scholarships, loans, student employment, waivers, reimbursement programs, and other financing arrangements. Students must be matriculated in an eligible degree or certificate program and be enrolled in courses required for that program to receive financial aid. To apply for financial aid, students must complete the 2015-2016 Free Application for Federal Student Aid (FASFA) online at www.fafsa.ed.gov. Financial aid is applied to students' charges following the end of the add/drop period. Students who withdraw from the University after receiving financial aid will be reviewed to determine the amount of financial aid the student earned prior to withdrawing. Students who withdraw may be required to return some or all financial aid. For more information about financial aid eligibility, please go to www.uml.edu/financialaid/.

Correct Social Security Number/ Tax Identification Number

The University of Massachusetts Lowell must obtain your correct social security number (SSN) to file certain information returns with the IRS as well as to furnish a statement to you. The returns the University must file contain information about qualified tuition and related expenses (Form 1098-T, Tuition Payments Statement). The information about your tuition will help to determine whether you, or the person who can claim you as a dependent, may take an education tax deduction.

FOR ADDITIONAL INTORMATION ON FINANCIAL POLICIES AND procedures, see www.uml.edu/Tuition-fees/

A significant number of important communications will be delivered to students via University email. Information about the availability of class schedules, course cancellations, grade reports, and financial awards that can be accessed using SiS, the Web-Based Self-Service, will be sent to students via email. UMass Lowell assigns UML email addresses to all students. Students should use their UML accounts with the @student.uml.edu suffix to ensure they receive important communications from the University. Please go to www.uml.edu/student-life/email.aspx and check the student email link.

Wait Listing

You may now put yourself on a wait list through SiS if the course you want is full. When you try to register for a closed course, the system will ask you if you want to be put on a wait list. If space becomes available in a course, the wait list function will add you into the class in the order of your request. Please note that you will receive an email at your UML email address if you are put into the closed course. Check your schedule in SiS to see if you are registered for the closed course. If you no longer wish to register for a course you are wait listed for, you must remove yourself from the wait list through SiS. If you do not remove yourself from the wait list, you run the risk of being registered for a course

and will be responsible for the grade received as well as the tuition and fees incurred. We also encourage you to register for a course that is open for enrollment, instead of using the

Emergency Contact Information & Notification System

As increased concerns regarding security, safety and campus emergencies of all types affect University campuses nationwide, UMass Lowell has initiated a program that requires students to provide and/or verify Emergency Contact Information on a regular basis. This information is used to contact designated individuals in the event of an emergency involving the student while on campus or when an emergency notification alert to advise our community is released.

When you first log into SiS this semester, you will notice an entry in "Your Holds Summary" indicating Emergency Contact Verification. This "Hold" will prevent all Registration/Add/Drop/ Swap a Class activity until you take action to verify your Emergency Contact Information. Release this hold by clicking on the hold and following the instructions. We encourage you to verify this information BEFORE you need to register for classes. For assistance, a help document has been posted on the SiS website.

Emergency Notification

Verify and update your account in the UML Emergency Notification System to get notified in the event of a campus emergency or crSiS at http://www.uml.edu/myalert

UCards/Student ID Cards

All students may request a UCard, but for most OCE students a UCard is not needed. OCE students that arrive before 2:00 pm will be charged a parking fee. The UCard primarily works as a student ID and an access card, but benefits also include the ability to load funds for meal and retail locations on campus, as well as printing. OCE students that have classes in labs secured by card access are required to have a UCard. Your instructor will let you know if you need a UCard to access a particular lab. For information on parking, please visit our website at www.uml.edu/ucaps

Note: If you require a UCard, you will need to visit the UCAPS Office any time after you have registered for classes and after May 9th to have your photo taken and a UCard will be issued to you. UCards are good for life and the first card is free - if you require a replacement card the cost is \$20. Contact the UCAPS Office at (978) 934-2800 or email: UCAPS@uml.edu if you have any questions. UCAPS is located in University Crossing at 220 Pawtucket Street.

What is UPrint?

UPrint is a green initiative that is aimed to reduce paper waste by eliminating unwanted and excess printing. If you are an OCE student and you do not have a UCard, you may purchase a UPrint Card at either the North or South Campus Library To take advantage of a \$15 printing credit per semester, please follow the instructions at www.uml.edu/uprint.

Institutional Disclosure

The University is required to disclose the availability of various types of information related to Federal programs and mandates under the Higher Education Acts. This information is located on the UML web at: http://continuinged.uml.edu/general/inst_disclosure.htm

Students with Disabilities

Newly accepted students who are requesting an accommodation based on a disability should interview with Student Disability Services. Student Disability Services will assist in making an appropriate accommodation plan. This should be done before classes begin. These interviews are scheduled by emailing disability@uml.edu.

Prior to scheduling an Intake Interview, proper documentation must be provided to the Student Disability Services Office

The University's Annual Campus Crime and Safety Report Under the Regulations of the Safe and Drug-Free Schools and Communities Act and the Jeanne Clery Act (formerly the Campus Security Act), the University is required annually to distribute to all faculty, staff and students a copy of the Annual Crime Report and the University's Policies and Procedures related to alcohol, other drugs, and sexual assault. These regulations permit us to publish this report electronically, and the current report is available on the internet at http://www.uml.edu/Police.

Bookstore

UMass Lowell River Hawk Shop 220 Pawtucket Street, (978) 934-2623

Students taking online courses can order books through the UMass Lowell River Hawk Shop.

Every effort has been made to ensure the accuracy of the information presented in this bulletin. However, Online and Continuing Education (OCE) reserves the right to implement new rules and regulations and to make changes of any nature in its program, calendar, procedures and standards, degree requirements, and academic schedules (including, without limitations, changes in course content and class schedules), locations, tuition, and fees. Whenever possible, appropriate notice of such changes will be given before they become effective. When changes are necessary, Online and Continuing Education exerts reasonable efforts to provide comparable or substantially equivalent instructional services and facilities for those originally designated. However, OCE assumes no liability for failure to deliver or for delay in delivering such services (including those in support of academic functions or student life) when the causes for such failure or delay are beyond the reasonable control of Online and Continuing Education – which causes include, without limitation, the following: power failure, fire, accident, natural disaster, work slowdown and strikes, loss of personnel, and acts of public authorities. In registering for courses, each student assumes full responsibility for knowledge of and compliance with the definitions, regulations, and procedures for the University as set forth in the appropriate publications and bulletins.

This newspaper is printed at no cost to the Commonwealth of Massachusetts. The University of Massachusetts Lowell is an Equal Opportunity/Affirmative Action University and does not discriminate in employment or access to programs or services on the basis of race, sex. sexual orientation, color, national origin, religion, handicap, or veteran's status and is in compliance with Title IX of the Education Amendments of 1972 and Section 504 of the Rehabilitation Act of 1973, and the Americans With Disabilities Act, 1990. Any inquiries and/or grievances may be referred to the Affirmative Action Officer, the Title IX Coordinator, the Disabilities Coordinator and/or to the Director, Office for Civil Rights, U.S. Department of Health and Human Services, Washington, D.C.

Please note: UMass Lowell is a smoke- and tobacco-free campus.

ATTENTION UNDERGRADUATE STUDENTS

COMPLETE SOME OF YOUR GEN ED OR CORE CURRICULUM REQUIREMENTS THIS SUMMER AT UMASS LOWELL!

A large selection of "Gen Ed" or Core Curriculum courses will be offered this summer, plus a wide variety of other courses that can be counted as free electives!

For more information and a complete list of the Gen Ed and Core Curriculum courses that will be offered this Summer, check out http://continuinged.uml.edu For additional information on UMass Lowell's General Education/Core Curriculum Requirements, please visit http://www.uml.edu/Academics/undergraduate-programs/Gened/

DO YOU STUDY AT ANOTHER COLLEGE OR UNIVERSITY?

You may be able to take a UMass Lowell course this Summer and transfer it into your program of study at another institution. Check with your college or university regarding acceptance of transfer credits from UMass Lowell prior to registering for your course.

To speak with one of our advisors about taking a course at UMass Lowell and counting it towards your degree at another college or university, call (978) 934-2474.

Book Your Stay or Your Next Event at UMass Lowell's Inn & Conference Center



Located in the heart of scenic downtown Lowell and just minutes from the inter-sections of I-495, Route 3 and the Lowell Connector, UMass Lowell's Inn & Conference Center is the perfect destination for your special event or getaway.

For additional information, call 978-934-6920 or visit http://www.uml.edu/icc

INTERNATIONAL STUDY ABROAD

Attention Online and Continuing Education Students Interested in Study Abroad Programs



Now you can take a Faculty-Led Study Abroad course for personal interest, or as part of your degree program, with prior approval from your faculty program coordinator.

To Learn More About Faculty-Led Study Abroad Programs at UMass Lowell, visit http://www.uml.edu/international-programs/

Pursue a UMass Lowell Degree at NECC in Haverhill this Summer.

You can earn your Bachelor's Degree in Psychology, Criminal Justice, or Business Administration in Haverhill, Massachusetts.*

UMass Lowell will offer the following courses at Northern Essex Community College in Haverhill, MA this Summer:

NECC SUMMER SESSION 2 | June 20th to August 11th **Criminal Justice** CRIM.3870-HA1 Criminal Mind and Behavior D. Carkin M/W 3:00-5:40 pm 3 P: CRIM.1010 or CRIM.2210 CRIM.3900-HA1 Criminal Justice Research Methods M/W 6:30-9:10 pm 3 Criminal Justice Junior or Senior standing only P. McCormack 2541 Mass Lowell T/Th 6:30-9:10 pm 3 P: ACCT.2010, ECON.2010, ECON.2020; COM filter courses, FINA.3010-HA1 Financial Management B. Bonghi BSBA Major or Business Minor/BSIT/ASIT with 54+ credits FINA.3210-HA1 Investment and Portfolio Analysis T/Th 6:30-9:10 pm 3 P: COM filter courses; BSBA or Business Minor; requires A. Rehman Marketing/Entrepreneurship 3064 MKTG.3130-HA1 Sales and Customer Relations M/W 6:30-9:10 pm 3 P: MKTG.2010: COM filter L. Durand **Operations and Information Systems** POMS.2010-HA1 Managerial Decision Making M/W 6:00-9:00 pm 3 P: ECON.2110 OR MATH.1830 OR MATH.2830 M. Vaid **Psychology** PSYC.3280-HA1 Dynamics of Interpersonal Relations M/W 6:30-9:10 pm 3 P: PSYC.1010, Junior/Senior level K. Butland PSYC.3510-HA1 Human Sexuality T/Th 6:30-9:10 pm 3 P: PSYC.1010 J. Worthley 2952 PSYC.3750-HA1 Research III: Laboratory 3 P. PSYC.3690 and PSYC.2690 M/W 3:00-5:40 pm M. Ryder PSYC.4740-HA1 Seminar in Developmental T/Th 3:00-5:40 pm 3 P. PSYC.2600 and PSYC.2690 J. Theriault Psychology: Challenges of Adolescence To schedule an appointment with an advisor in Haverhill, call (978) 934-2474. For more details, visit http://continuinged.uml.edu/haverhill

Date

Work phone.

Gender □ M □ F

Cell phone, for emergency purposes.

REGISTRATION FORM FOR COURSES

Registration form is for NEW UMass Lowell Online and Continuing Education students only. Current UML students should register online at http://sis.uml.edu.

Date of birth

Home phone

Note: Please remember to fill in your work, home phone numbers and email address. This will allow us to reach you in case of class cancellations.

University of Massachusetts Lowell

*Students may have the option to complete some required courses online.

Mail to University of Massachusetts Lowell, The Solution Center, University Crossing, 220 Pawtucket Street, Suite 131, Lowell, MA 01854-5129 OR FAX to: (978) 934-2041 Email The Solution Center at Thesolutioncenter@uml.edu

PLEASE USE INK AND PRINT

CHECK APPROPRIATE REGISTRATION STATUS

CHECK APPROPRIATE REGISTRAT	ION STATUS:
☐ Undergraduate Credit ☐ Graduate Credit	□ Noncredit
Citizenship: Native or naturalized citizen	 Permanent resident (w/valid alien registration card, refugee, or asylum visa)

☐ Approved visa: H1__ H4__ J2__ K-3__ L1__ L2__ TN__ International students living in the US may take only one online course per semester.

Contact International Students and Scholars Office at ISSO@uml.edu.

☐ Not a citizen of the US; Country of citizenship:

Student ID/SSN# (for new students only):

Name _____ Street & No.

City & State ___

Zip Code

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Please check one or more of the following groups in which you identify yourself:

☐ Asian ☐ Black or African American ☐ Native Hawaiian or Pacific Islander

American Indian or Alaskan Native White Hispanic or Latino

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COLIDSES FOR WHICH YOU ARE REGISTERING

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	Registration Fee (\$30 per Term)				
	Total \$	rey/Ratunds 30 in Direct I			

Please do not send payment. You will be billed for tuition and fees by the University.

Confirmation of your registration will be under your account at http://sis.uml.edu. (A user ID and password will be sent to you by mail upon receipt of your registration.)
Online Students: Go to https://continuinged.uml.edu/login one to two business days after registration in order to check your access.

Verification of Baccalaureate Degree:

Only for students who are not matriculated into a Graduate Program and are registering for Graduate courses. An unofficial transcript must be submitted within 30 days of registration.

Institution Degree Earned Degree Date